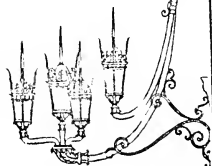


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Vol. 2

Program for
**HYNES
AUDITORIUM
EXPANSION**

Boston, Massachusetts

City of Boston

Kevin H. White, Mayor

Boston Redevelopment Authority

Robert J. Ryan, Director

Public Facilities Department

Donald B. Manson, Director



**Volume II
Equipment List**

2350-00

2 February 1983

Perez Associates/Studio One New Orleans, Louisiana

Event and Facility Consultants Portland, Oregon

Norman A. Abend Wayland, Massachusetts



PROGRAM FOR
HYNES AUDITORIUM EXPANSION
BOSTON, MASSACHUSETTS

CITY OF BOSTON
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PUBLIC FACILITIES DEPARTMENT
DONALD B. MANSON, DIRECTOR

VOLUME II
EQUIPMENT LIST

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PEREZ ASSOCIATES/STUDIO ONE
NEW ORLEANS, LOUISIANA

EVENT AND FACILITY CONSULTANTS
PORTLAND, OREGON

NORMAN A. ABEND
WAYLAND, MASSACHUSETTS

INTRODUCTION

Volume II, Equipment List, of the Program for Hynes Auditorium Expansion is a detailed listing of movable equipment for the expanded facility. It was prepared by Event and Facility Consultants and the Robert Bailey Design Group, both of Portland, Oregon, consultants for the project to Perez Associates/Studio One. Generally, all equipment not contemplated to be furnished as part of the building construction contract is included. Most projectors and screens are not included, since these items are usually rented from a separate audio-visual house for each event. Food service equipment, although presented as a line items in the budget recapitulation below, is not described in detail as this is a specialty generally included with or related to the construction work.

The equipment list presents all equipment that would normally be required for a full range of in-house services, and would have to be modified according to management philosophy with respect to contract versus in-house services.

Equipment budgets are given throughout the list for each item, are summarized on the first page of each category, and are recapitulated below. Costs given are for 1983 and will have to be escalated to the time of purchase.

1. Lobby	\$ 275,080
2. Meeting Rooms	914,055
3. Administrative	168,873
4. Operations	434,796
5. First Aid	16,815
6. Exhibit Hall	1,107,000
	<hr/>
SUBTOTAL	\$2,916,619
Food Service	900,000
Contingency	200,000
	<hr/>
TOTAL	\$4,016,619

INDEX

1 Lobby

2 Meeting Rooms

3 Administrative

4 Operations

5 First Aid

6 Exhibit Hall

7 Catalog Cuts

Lobby 1

Turnstiles, Portable
Ropes & Stanchions
Ticket Boxes, Portable
Money Trays
Changeable Letter Boards
Floor Matts
Seating, Furniture, Accessories
Ash Urns/Trash Receptacles

TOTAL: \$275,060

PORTABLE, TURNSTILE	SUGGESTED QUANTITY:	6
ITEM: L-1	ESTIMATED UNIT PRICE:	\$1050
LOCATION: LOBBY	BUDGET TOTAL:	\$6300

MANUFACTURER: Perey Manufacturing Company

MODEL NO.: HD Portable Super Kompak Passimeter

DESCRIPTION: Turnstile. Steel cabinet, normally unlocked, two-way type, portable model which automatically registers passage of traffic in one direction only. Equipped with an attached guide railing, railing filler plate, and connecting floor plate. Recording register records up to 99,999. Arm length 14". Overall dimensions 27½"(L) x 38-9/16"(H) x 23-11/16"(W) including guide railing and floor plate. Height to top of arm 34". Equipped with 2 wheels at the rear of the cabinet.

ROPES & STANCHIONS	SUGGESTED QUANTITY:	1-LOT
ITEM: L-2	ESTIMATED UNIT PRICE:	\$6,000
LOCATION: LOBBY	BUDGET TOTAL:	\$6,000

MANUFACTURER: Lawrence Metal Products, Inc.

MODEL NO.: 318-3 Contemporary Portable Post
542 Naugahyde Covered Rope
511 Wall Plate

DESCRIPTION: 318-3 Contemporary Portable Post of stainless steel, for indoor and outdoor use. Post 36" high, 12" diameter base, 2" O.D. tubular post with universal loop. Rubber floor protector.

Quantity required: 25

542 Naugahyde covered rope to span 4 feet. 1½" diameter with #750 snap ends in satin chrome finish.

Quantity required: 12

542 Naugahyde covered rope to span 7 feet. 1½" diameter with #750 snap ends in satin chrome finish.

Quantity required: 12

511 Wall plate which will accept two rope ends. Satin chrome finish, with matching satin chrome attachment screws supplied.

Quantity required: 10

TICKET BOX	SUGGESTED QUANTITY:	6
ITEM: L-3	ESTIMATED UNIT PRICE: -	\$280
LOCATION: LOBBY	BUDGET TOTAL:	1,680

MANUFACTURER: Perey Manufacturing Co.

MODEL NO.: Ticket Box

DESCRIPTION: Ticket Box with locked compartment. Baffel type box. All steel construction with two glass windows in the hopper to permit visual inspection of the tickets. Equipped with a canvas bag inside the hinged door and cabinet lock. Each unit to have individual different lock with two keys each and two master keys. Dimensions 44½"(H) x 12"(L) x 12"(W).

REMOVABLE MONEY TRAY

SUGGESTED QUANTITY: 6

ITEM: L-4

ESTIMATED UNIT PRICE: \$55

LOCATION: LOBBY

BUDGET TOTAL: \$330

MANUFACTURER: Indiana Cash Drawer Company

MODEL NO.: 1B-T

DESCRIPTION: Removable money tray. Metal money tray equipped with lock-on lid. Overall size 15½"(W) x 10½"(L) x 2½"(H). 5 coin tills and 5 currency compartments. Hinged bill weights. Tray locks with 2 individual keys and 2 master keys.

CHANGEABLE LETTER BOARDS	SUGGESTED QUANTITY:	6
ITEM: L-5	ESTIMATED UNIT PRICE:	\$85
LOCATION: LOBBY	BUDGET TOTAL:	\$510

MANUFACTURER: Glaro

MODEL NO.: CS4

DESCRIPTION: Changeable letter boards for ticket windows 11"x14". Felt boards slotted at $\frac{1}{4}$ " centers to accept molded plastic letters. Boards are housed in a 3/16" extruded aluminum frame that is finished in a clear oven baked epoxy. Frames have a counter top stand with felt covered bottom.

ACCESSORIES: CPL 10 assortment of 100 1" characters

CPLB compartmented storage box with cover.

FLOOR MATS	SUGGESTED QUANTITY:	12
ITEM: L-6	ESTIMATED UNIT PRICE:	\$280
LOCATION: LOBBY	BUDGET TOTAL:	\$3,360

MANUFACTURER: Rubbermaid Commercial Products, Inc.

MODEL NO.: 1683

DESCRIPTION: Floor mats. Vinyl vertical-tread pattern heavy-duty skid-resistant floor protection. Non-staining ribbed texture cleans by sweeping or scrubbing.

SEATING, FURNITURE, ACCESS.

SUGGESTED QUANTITY: 1 LOT

ITEM: L-7

ESTIMATED UNIT PRICE: N/A

LOCATION: LOBBY

BUDGET TOTAL: \$250,000

To be specified and supplied by others
and subject to architect's approval

ASH URNS/TRASH RECEPTACLES	SUGGESTED QUANTITY:	60
ITEM: L-8	ESTIMATED UNIT PRICE:	\$115
LOCATION: LOBBY	BUDGET TOTAL:	\$6,900

MANUFACTURER: Peter Peper Products Inc.

MODEL NO.: 238

DESCRIPTION: Steel sand urn & waste receptacle with removable dish & sifter made from polished steel tubing with a minimum wall thickness of .065 and electro-welded seam. Interior is black enamel and have concrete weighted base overall dimensions 10" dia. x 28" (H)

Meeting Rooms 2

Chalk/Bulletin Boards
Utility Easel
Portable Coat Racks
Portable Dance Floor
Portable Stage
Table Risers (6'x8'x32")
Dual Height Table Riser
Folding Tables 60"x30"
Folding Tables 72"x18"
Folding Tables 72"x30"
Storage Trucks
60" Round Folding Tables
Folding Crescent Tables
Storage Trucks Round
United States Flag
State Flag
City Flag
Lecturn Floor Model
Lecturn Table Model
Spinnet Piano
Portable Sign Holder
Wastebaskets
Stacking Chairs
Chair Dollies

TOTAL: \$914,055

CHALK/BULLETIN BOARDS	SUGGESTED QUANTITY:	12
ITEM: MR-1	ESTIMATED UNIT PRICE:	\$650
LOCATION: MEETING ROOMS	BUDGET TOTAL:	\$7,800

MANUFACTURER: Claridge Products & Equipment Co.

MODEL NO.: 146DV Chalkboard/Bulletin Board with casters

DESCRIPTION: Chalkboard/Bulletin Board, portable. Revolving two-sided board with chalkboard one side and a bulletin board on the other side. Chalkboard is of Vitracite porcelain enamel steel. Bulletin board side to be vinyl covered cork $\frac{1}{4}$ " thick. 4'H x 7'W, on heavy-duty 3" casters with brakes.

UTILITY EASEL	SUGGESTED QUANTITY: 18
ITEM: MR-2	ESTIMATED UNIT PRICE: \$135
LOCATION: MEETING ROOMS	BUDGET TOTAL: \$2,430

MANUFACTURER: Claridge Products & Equipment Co.

MODEL NO.: LCS-105-W

DESCRIPTION: Utility Easel equipped with a 29" x 40" white liquid chalk surface. Grips paper pads of $\frac{1}{4}$ " thickness. 72" high. With 12 assorted LCS markers and a felt eraser.

PORTABLE COAT RACKS

SUGGESTED QUANTITY: 50

ITEM: MR-3

ESTIMATED UNIT PRICE: \$250

LOCATION: MEETING ROOMS

BUDGET TOTAL: \$12,500

MANUFACTURER: Vogel Peterson

MODEL NO.: DFCK 60" long with W/50 VP-26K hangers

DESCRIPTION: Portable coat rack. All steel construction 60" long double face unit holding 50 hangers with two hat shelves. Equipped with swivel casters. Unit to include 50 model VP-26K garment hangers.

PORTABLE STAGE	SUGGESTED QUANTITY: 1
ITEM: MR-5	ESTIMATED UNIT PRICE: \$35,000
LOCATION: MEETING ROOMS	BUDGET TOTAL: \$35,000

MANUFACTURER: Sico Incorporated

MODEL NO.: 1700 Series

DESCRIPTION: Interlocking mobile staging system consisting of stage platform units 6'W x 8'L. Staging to be constructed of 14 gauge or heavier structural steel with baked-on enamel and zinc chromate electroplating finish. Units are built on a unitized steel frame.

Staging system consists of 12 units with height adjustments from 32" to 48" in 1" increments. Platforms are interlocking in all configurations. Each platform section stores vertically, folded and resting on four 5" casters. Velcro strips are provided for drapery attachment.

ACCESSORIES: Mobile step assemblies with side rails and casters. Step boards are 12"W x 35"L x 1-1/16"D.

Chair/Table Stop of 1-3/8" x 7/8" x 1/8" steel angle with 1/2" x 1" steel quick-release arms. Bar rests 1/2" above surface to serve as chair stop.

Guard Rails of 1-3/8" O.D. x 14 gauge steel tube with baked enamel finish attach to stage at all heights.

Draperies of adjustable lengths to adapt to stage height adjustments. Each drapery to be provided with Velcro strips to attach to stage units.

Drapery and guard rail truck on four 5" swivel casters.

SPECIAL NOTE: See next page.

PORTABLE STAGE - CONTINUED

SPECIAL NOTE:

All accessory quantities and model applications should be recommended by local representative. Vendor will also provide manufacturer personnel to assist and instruct in the first installation.

TABLE RISERS (6'x8'x32")	SUGGESTED QUANTITY:	6
ITEM: MR-6	ESTIMATED UNIT PRICE: -	\$1,400
LOCATION: MEETING ROOMS	BUDGET TOTAL:	\$8,400

MANUFACTURER: Sico Incorporated

MODEL NO.: 1801-632

DESCRIPTION: Table Risers are 6'W x 8'L platform units constructed of 14 gauge or heavier structural steel with baked enamel and zinc chromate electroplating finish. Units are built on unitized steel frame. Platforms are single height 32" modules.

ACCESSORIES: Mobile step assemblies with side rails and casters. Step boards are 12"W x 35"L x 1-1/16"D.

Chair/Table Stop of 1-3/8" x 7/8" x 1/8" steel angle with 1/2" x 1" steel quick-release arms. Bar rests 1/2" above surface to serve as chair stop.

Guard Rails of 1-3/8" O.D. x 14 gauge steel tube with baked enamel finish attach to stage at all heights.

Draperies of adjustable lengths to adapt to stage height adjustments. Each drapery to be provided with Velcro strips to attach to stage units.

Drapery and guard rail truck on four 5" swivel casters.

SPECIAL NOTE: All accessory quantities and model applications should be recommended by local representative. Vendor will also provide manufacturer personnel to assist and instruct in the first installation.

DUAL HEIGHT TABLE RISERS	SUGGESTED QUANTITY:	60
ITEM: MR-7	ESTIMATED UNIT PRICE:	\$1,400
LOCATION: MEETING ROOMS	BUDGET TOTAL:	\$84,000

MANUFACTURER: Sico Incorporated

MODEL NO.: 1800 Series

DESCRIPTION: Table Risers are 6'W x 8'L platform units constructed of 14 gauge or heavier structural steel with baked enamel and zinc chromate electroplating finish. Units are built on unitized steel frame. Platforms with height adjustments from 16" to 24"

ACCESSORIES: Mobile step assemblies with side rails and casters. Step boards are 12"W x 35"L x 1-1/16"D.

Chair/Table Stop of 1-3/8" x 7/8" x 1/8" steel angle with 1/4" x 1" steel quick-release arms. Bar rests 1/4" above surface to serve as chair stop.

Guard Rails of 1-3/8" O.D. x 14 gauge steel tube with baked enamel finish attach to platforms at all heights.

Draperies of adjustable lengths to adapt to platform height adjustments. Each drapery to be provided with Velcro strips to attach to stage units.

Drapery and guard rail truck on four 5" swivel casters.

SPECIAL NOTE: All accessory quantities and model applications should be recommended by local representative. Vendor will also provide manufacturer personnel to assist and instruct in the first installation.

DUAL HEIGHT TABLE RISERS - continued

QUANTITY NOTES: Quantity based on 84 table riser to be maximum (100%) required to equip all 28 meeting rooms simultaneously. (3 per room)
An inventory of 70% of maximum capacity totals 58 with an allowance for reserve & replacement say 60.

FOLDING TABLES 60"x30"

SUGGESTED QUANTITY: 50

ITEM: MR-8

ESTIMATED UNIT PRICE: \$58

LOCATION: MEETING ROOMS

BUDGET TOTAL: \$2,900

MANUFACTURER: Krueger

MODEL NO.: NP-5 Table or Approved Equal

DESCRIPTION: Folding table of heavy duty commercial grade manufactured to withstand usage in public auditoriums. The legs are of 18 gauge tubular steel 1-1/8" O.D. in a pedestal configuration. Die formed steel folding leg braces, 9 gauge flat steel with gravity type steel leg locks, riveted to vertical leg sections and screwed to underside of table top frame work. Legs fold flat within depth of steel apron and are capped with protective dylon feet. The apron is 18 gauge channel steel permanently screwed to underside of top. It is of one-piece, butt welded construction. All steel parts are corrosion resistance bonderized and finished in electrostatically applied heavy duty enamel.

Tops are 3/4" thick lightweight honeycomb cellular core construction with 1/12" laminated, high density plastic top and .045 high pressure laminated backing sheet. Tops are edge banded with heavy duty bullnose vinyl fastened to lower table framework. Table height 29".

FOLDING TABLES 60"x30"

SUGGESTED QUANTITY: 65

ITEM: MR-8

ESTIMATED UNIT PRICE: \$58

LOCATION: MEETING ROOMS

BUDGET TOTAL: \$3,770

MANUFACTURER: Krueger

MODEL NO.: NP-5 Table or Approved Equal

DESCRIPTION: Folding table of heavy duty commercial grade manufactured to withstand usage in public auditoriums. The legs are of 18 gauge tubular steel 1-1/8" O.D. in a pedestal configuration. Die formed steel folding leg braces, 9 gauge flat steel with gravity type steel leg locks, riveted to vertical leg sections and screwed to underside of table top frame work. Legs fold flat within depth of steel apron and are capped with protective dylon feet. The apron is 18 gauge channel steel permanently screwed to underside of top. It is of one-piece, butt welded construction. All steel parts are corrosion resistance bonderized and finished in electrostatically applied heavy duty enamel.

Tops are 3/4" thick lightweight honeycomb cellular core construction with 1/12" laminated, high density plastic top and .045 high pressure laminated backing sheet. Tops are edge banded with heavy duty bullnose vinyl fastened to lower table framework. Table height 29".

QUANTITY NOTES: Quantity base on 84 maximum (100%) required to equip all 28 meeting rooms simultaneously (3 per room) for head table set-ups and other uses. An inventory of 70% of capacity totals 58 with a 10% allowance for reserve and replacement say 65.

FOLDING TABLES 72"x18"	SUGGESTED QUANTITY:	1500
ITEM: MR-9	ESTIMATED UNIT PRICE:	\$60
LOCATION: MEETING ROOMS	BUDGET TOTAL:	\$90,000

MANUFACTURER: Krueger

MODEL NO.: SP6 Table or Approved Equal

DESCRIPTION: Folding table of heavy duty commercial grade manufactured to withstand usage in public auditoriums. The legs are of 18 gauge tubular steel 1-1/8" O.D. in a pedestal configuration. Die formed steel folding leg braces, 9 gauge flat steel with gravity type steel leg locks, riveted to vertical leg sections and screwed to underside of table top frame work. Legs fold flat within depth of steel apron and are capped with protective dylon feet. The apron is 18 gauge channel steel permanently screwed to underside of top. It is of one-piece, butt welded construction. All steel parts are corrosion resistance bonderized and finished in electrostatically applied heavy duty enamel.

Tops are 3/4" thick lightweight honeycomb cellular core construction with 1/12" laminated, high density plastic top and .045 high pressure laminated backing sheet. Tops are edge banded with heavy duty bullnose vinyl fastened to lower table framework. Table height 29".

QUANTITY NOTES: Quantity based on 7.106 maximum (100%) number of persons to be accommodated in school-room style figuring 3.5 persons per table. An inventory of 2030 activity tables are required to equip all 28 meeting rooms simultaneously. An inventory of 70% of capacity totals 1421 tables with a 10% allowance for reserve and replacement say 1500.

FOLDING TABLES 72"x30"	SUGGESTED QUANTITY:	10
ITEM: MR-10	ESTIMATED UNIT PRICE:	\$58
LOCATION: MEETING ROOMS	BUDGET TOTAL:	\$580

MANUFACTURER: Krueger

MODEL NO.: NP-6 Table or Approved Equal

DESCRIPTION: Folding table of heavy duty commercial grade manufactured to withstand usage in public auditoriums. The legs are of 18 gauge tubular steel 1-1/8" O.D. in a pedestal configuration. Die formed steel folding leg braces, 9 gauge flat steel with gravity type steel leg locks, riveted to vertical leg sections and screwed to underside of table top frame work. Legs fold flat within depth or steel apron and are capped with protective dylon feet. The apron is 18 gauge channel steel permanently screwed to underside of top. It is of one-piece, butt welded construction. All steel parts are corrosion resistance bonderized and finished in electrostatically applied heavy duty enamel.

Tops are 3/4" thick lightweight honeycomb cellular core construction with 1/12" laminated, high density plastic top and .045 high pressure laminated backing sheet. Tops are edge banded with heavy duty bullnose vinyl fastened to lower table framework. Table height 29".

STORAGE TRUCKS	SUGGESTED QUANTITY: 70
ITEM: MR-11	ESTIMATED UNIT PRICE: \$92
LOCATION: MEETING ROOMS	BUDGET TOTAL: \$6,440

MANUFACTURER: Krueger

MODEL NO.: KTH6

DESCRIPTION: Table caddies are 16 gauge 1½"x4½" steel angle side members electrically welded to 2½"x7" channel steel cross members. Caddies are mounted 4" roller bearing casters, 2 fixed and 2 swivel, finished in electrostatically applied heavy duty enamel. Overall dimensions 99"(L) x 26"(W) x 35"(H)

QUANTITY NOTES: Quantity based on 12 tables 30" wide per truck & 24 tables 18" wide per truck to accommodate 75, (30" wide) tables and 1500, (18" wide) tables. Total number of trucks is 68 say 70.

60" ROUND FOLDING TABLES	SUGGESTED QUANTITY:	400
ITEM: MR-12	ESTIMATED UNIT PRICE:	\$95
LOCATION: MEETING ROOMS	BUDGET TOTAL:	\$38,000

MANUFACTURER: Krueger

MODEL NO.: RP5 or Approved Equal

DESCRIPTION: Round tables with 16 gauge channel steel apron and rounded corners. Legs of 1-1/8" O.D. 18 gauge tubular steel connected in pairs by 7/8" O.D. 18 gauge tubular steel welded cross brace, allowing legs to fold simultaneously. Legs capped with protective plastic feet. Hinges; die form steel, knife lock, riveted to each leg and screwed to underside of table top. The 60" diameter top is 7/8" thick of solid high density hardboard core with 1/16" plastic laminate top sheet and a bullnose "T" vinyl edge. All steel parts bonderized for corrosion resistance and finished with electrostatically bake enamel. Table height 29".

QUANTITY NOTES: Quantity based on 2.190 persons to be accommodated in banquet style figuring 6 persons per table and inventory of 365 banquet tables are required to equip banquet hall. With an allowance for simultaneous dinning in meeting rooms and reserve an replacement say 400.

FOLDING CRESCENT TABLES

SUGGESTED QUANTITY: 4

ITEM: MR-13

ESTIMATED UNIT PRICE: \$150

LOCATION: MEETING ROOMS

BUDGET TOTAL: \$600

MANUFACTURER: Howe

MODEL NO.: 6030 DRP or Approved Equal

DESCRIPTION: Crescent folding table frame construction of high carbon angle iron rails. 20 gauge 1½" square tubular steel legs with 13 gauge steel elbow-type bracing that join to automatic over center leg locks. Legs are capped by rubber cushioned glides and finished in heavy duty black enamel. Table tops are .050 plastic laminate permanently bonded to 5/8" particleboard with a flush black vinyl edge molding bradded into place from the underside. Table height is 30".

STORAGE TRUCKS (ROUND)	SUGGESTED QUANTITY:	51
ITEM: MR-14	ESTIMATED UNIT PRICE:	\$250
LOCATION: MEETING ROOMS	BUDGET TOTAL:	\$12,750

MANUFACTURER: Krueger

MODEL NO.: KTR9

DESCRIPTION: Storage trucks frame is 16 gauge 1"x2" tubular steel welded to form truck base. End of 18 gauge 1-1/8" O.D. tubular steel welded to steel brackets which serve as post sockets. Side and end posts of 18 gauge 1-1/8" O.D. tubular steel removeable for stacking empty trucks. Frame work and chassis are finished in electrostatically applied heavy duty baked enamel. Truck capacity is a minimum of 8, 60" or 72" diameter round tables stored vertically on edge. Trucks are mounted on 5" roller bearing, non-marring rubber wheels, 2 fixed, 2 swivel. Overall dimensions 48"(L) x 34"(W) x 42"(H).

QUANTITY NOTES: Quantity based on 8 round tables stacking per truck to accommodate 400. Total number of trucks is 50. Say 51 for crescent tables.

UNITED STATES FLAG	SUGGESTED QUANTITY:	18
ITEM: MR-15	ESTIMATED UNIT PRICE:	\$100
LOCATION: MEETING ROOMS	BUDGET TOTAL:	\$1,800

MANUFACTURER: Admiral Flag Poles Incorporated

MODEL NO.: Code 227

DESCRIPTION: United States Flag set. 3' x 5' indoor nylon flag with 8' hardwood oak pole with brass joints. Gold-plated eagle, gold cord and tassels. Gold-finish aluminum stand. Flag pole heading and 2" gold fringe.

STATE FLAG	SUGGESTED QUANTITY:	6
ITEM: MR-16	ESTIMATED UNIT PRICE:	\$125
LOCATION: MEETING ROOMS	BUDGET TOTAL:	\$750

MANUFACTURER: Admiral Flag Poles Incorporated

MODEL NO.: 229

DESCRIPTION: State of massachusetts flag sets. 3'x5' indoor nylon flag with 8' hardwood oak pole with brass joints. Gold-plated eagle, gold cord and tassels. Gold finish aluminum stand. Flag pole heading and 2" gold fringe

CITY FLAG	SUGGESTED QUANTITY: 6
ITEM: MR-17	ESTIMATED UNIT PRICE: \$200
LOCATION: MEETING ROOMS	BUDGET TOTAL: \$1,200

MANUFACTURER: Admiral Flag Poles Incorporated

MODEL: Special Flags

DESCRIPTION: City of Boston flag with flag set. 3'x5' indoor nylon flag with 8' hardwood oak pole with brass joints. Gold-plated eagle, gold cord and tassels. Gold-finish aluminum stand. Flag pole heading and 2" gold fringe

LECTERN W/ STAND	SUGGESTED QUANTITY: 8
ITEM: MR-18	ESTIMATED UNIT PRICE: \$1,900
LOCATION: MEETING ROOMS	BUDGET TOTAL: \$15,200

MANUFACTURER: Van San Corporation

MODEL NO.: Direction - 2700-25

DESCRIPTION: Lectern; wood is of architectural grade veneer core plywood. All mitred or tongue and groove joints, pressure-clamped and glued. All mounting cleats are screwed in place. Finish is five coat hand sanded and rubbed application. The lectern is equipped with a light and digital clock. Work surface is suede black plastic laminate. Two three-inch wheels are mounted at lectern base, on speaker's side for mobility. Overall dimensions, bottom section; 29"H x 25"W x 23"D top section; 17"H x 28"W x 27½"D.

SPECIAL NOTE: Wood veneer to be approved by architects.

QUANTITY NOTES: Quantity based on 28 maximum (100%) required to equip all 28 meeting rooms simultaneously. An inventory of 60% of maximum capacity totals 16.8 (say 16). 8 with stands and 8 table top models.

TABLE MODEL LECTERN	SUGGESTED QUANTITY: 8
ITEM: MR-19	ESTIMATED UNIT PRICE: \$135
LOCATION: MEETING ROOMS	BUDGET TOTAL: \$1,080

MANUFACTURER: Van San Corporation

MODEL NO.: Seminar LE-33

DESCRIPTION: Lectern; wood is of architectural grade veneer core plywood. All mitred or tongue and groove joints. Pressure-clamped and glued all mounting cleats are screwed in place. Finish is five coat hand sanded and rubbed application. The lectern is equipped with a light and digital clock. Work surface is suede black plastic laminate. Overall dimensions 15"H x 19"W x 21"D.

SPECIAL NOTE: Wood veneer to be approved by architect.

QUANTITY NOTES: Quantity based on 28 maximum (100%) required to equip all 28 meeting rooms simultaneously. An inventory of 60% of maximum capacity totals 16.8 (say 16). 8 with stands and 8 table top models.

SPINET PIANO	SUGGESTED QUANTITY:	4
ITEM: MR-20	ESTIMATED UNIT PRICE:	\$2,700
LOCATION: MEETING ROOMS	BUDGET TOTAL:	\$10,800

MANUFACTURER: Yamaha International Corp.

MODEL NO.: P202

DESCRIPTION: Upright piano has 88 keys, 66 damper.
Overall dimensions: 45"H x 59"W x 23"D.
24-15/16" from floor to keyboard. Piano
has standard direct blow action mechanism,
and bass sustain center pedal. To be
supplied with 4 double wheel hard rubber
casters.

ACCESSORIES: Piano cover of heavy furniture pad
macintosh type that is sized for this piano.

Piano Bench

FOLLOW SPOTLIGHTS

SUGGESTED QUANTITY: 2 EA.

ITEM: MR-21

ESTIMATED UNIT PRICE: N/A

LOCATION: MEETING ROOMS

BUDGET TOTAL: \$19,650

MANUFACTURER: Strong Electric/Holophane Division

MODEL NO.: 83050

DESCRIPTION: Follow spotlight with long throw Xenon bulb unit. Each unit complete with two 1600 watt xenon bulbs. With 12' power cord. Overall dimensions: 77½" L x 32" W x 62" H.

MODEL NO.: 45003 Trouperette III

DESCRIPTION: Follow spot with 1000 watt 250 hour quartz halogen lens is a single level two element variable focal length. The horizontal masking control adjusts through 45½°. Iris is heavy duty nichrome. The spot has a built-in six color boomerang. Operation is direct from 115 volt A.C. line with direct circuit switching equipped with 25 ft. 3 wire cable.

PORTABLE SIGN HOLDER

SUGGESTED QUANTITY: 20

ITEM: MR-22

ESTIMATED UNIT PRICE: \$420

LOCATION: MEETING ROOMS

BUDGET TOTAL: \$8,400

MANUFACTURER: Architectural Signing Inc.

MODEL NO.: Series 486

DESCRIPTION: Floor-standing poster holder/tackboard combination units. Aluminum extrusion 3/4" x 1 1/2" x 60" high, milled sides and slotted top to accommodate 28" x 22" graphic insert. Aluminum finish to be anodized.

WASTEBASKETS	SUGGESTED QUANTITY:	40
ITEM: MR-23	ESTIMATED UNIT PRICE:	\$7
LOCATION: MEETING ROOMS	BUDGET TOTAL:	\$280

MANUFACTURER: Rubbermaid Commercial Products Inc.

MODEL NO.: 2947

DISCRIPTION: Large round wastebasket, plastic polymer molded with intrigal beige color and reinforced return top rim. 44-3/8 qt. capacity. Overall dimensions 15-3/4"dia. x 18-3/4"(H).

SPECIAL NOTES: Uses polyliner bag No. 5003

STACKING CHAIRS	SUGGESTED QUANTITY:	6,800
ITEM: MR-24	ESTIMATED UNIT PRICE:	\$65
LOCATION: MEETING ROOMS	BUDGET TOTAL:	\$442,000

MANUFACTURER: Fixtures

MODEL NO.: 3000

DESCRIPTION: Stacking chair of heavy-duty commercial grade. Chair frame of 3/4" diameter X 16 gauge bright chrome tubular steel, with frame completely surrounding seat and back. Legs are 3/4" diameter X 14 gauge steel tubing.

Legs are welded parallel and adjacent to seat frame. Legs are capped with a non-obstructive clear plastic angle glide. Seat and back to be 1/2" X 5 ply molded plywood covered with 3/4" high-density polyfoam.

Chairs to gang at 18-3/4" centers by a leg-over-leg position. 16 chairs stack under 80" high and are able to be moved by one man with a chair dolly (two-wheeler) through a conventional doorway.

Overall dimensions: 32" seatback height, 17" seat height, 20" width, 22" deep, and weight is 16 pounds.

Fire retardant materials shall conform to local codes.

SPECIAL NOTES: Color and fabric to be approved by Architect.

QUANTITY NOTES: Quantity based on 11,209 maximum (100%) required to equip simultaneously 28 meeting rooms and banquet hall. An inventory of 70% of maximum capacity totals 6,725 with an allowance for reserve & replacement say 6,800.

CHAIR DOLLIES	SUGGESTED QUANTITY:	425
ITEM: MR-25	ESTIMATED UNIT PRICE:	\$225
LOCATION: MEETING ROOMS	BUDGET TOTAL:	\$95,625

MANUFACTURER: Fixtures

MODEL NO.: 2003

DESCRIPTION: Chair dolly (two-wheeler)- Bright chrome frame constructed of 14 gauge 1" tubular steel with 5/8" diameter cold rolled steel rod stabilizer bars. Base plate of 7 gauge steel with radius corners. The axle is 5/8" diameter chrome plated cold rolled steel rod with chamfered ends turned for wheel assembly. Wheels are 8" semi-pneumatic roller bearing tires.

Overall dimensions: 28" wide X 49" high.

QUANTITY NOTES: Quantity bases on 16 chairs stacking per chair dolly to accommodate 6,800 stacking chairs. Total number of dolly is 425.

Administrative 3

Wall Clock
Calculator Desk
Calculator Hand
Electric Typewriter
Dictation/Transcriber
Postage Meter
Postage Scale
Paper Cutter
Copier
Check Protector
Records Safe
Television
Refrigerator
Slide Projector
Portable Projection Screen
Coffee/Tea Maker
Hole Punch
Stapler
Scissors
Rulers
Office Furnishings
Conference Room Furnishings
Vip Room Furnishings

TOTAL: \$168,873

WALL CLOCK	SUGGESTED QUANTITY:	1
ITEM: A-1	ESTIMATED UNIT PRICE:	\$200
LOCATION: ADMINISTRATION	BUDGET TOTAL:	\$200

To be specified and supplied by others,
and subject to architect's approval.

CALCULATOR, DESK

SUGGESTED QUANTITY: 6

ITEM: A-2

ESTIMATED UNIT PRICE: \$260

LOCATION: ADMINISTRATION

BUDGET TOTAL: \$1,560

MANUFACTURER: Sharp Electronics Corporation

MODEL NO.: CS-2187

DESCRIPTION: Desk calculator 12-digit printing display calculator with cross-footing and dual addition; column averaging. Automatic 3-digit punctuation, repeat and counter display. Printout of 12 numerals and 2 symbols on a standard size roll of plain paper. Negative entries and results are printed in red.

HAND CALCULATOR	SUGGESTED QUANTITY:	9
ITEM: A-3	ESTIMATED UNIT PRICE:	\$60
LOCATION: ADMINISTRATION	BUDGET TOTAL:	\$540

MANUFACTURER: Texas Instrument

MODEL NO.: TI Professional Business Analyst

DESCRIPTION: Hand calculator preprogrammed functions for amortization principle balance and interest problems, net present value and internal rate of return with ten variable grouped cash flows, interest rate conversion and statistical mean standard deviation and linear regression. Additionally the calculator features 32 steps of programing.

ELECTRIC TYPEWRITERS

SUGGESTED QUANTITY: SEE BELOW

ITEM: A-4

ESTIMATED UNIT PRICE: \$1,850/\$975

LOCATION: ADMINISTRATION

BUDGET TOTAL: \$9,550

MANUFACTURER: Olivetti

MODEL NO.:

DESCRIPTION: ET221 electric typewriter consisting of electronic keyboard with selectors and special function keys. Print unit, with interchangeable print wheel (daisy) and interchangeable ribbon cartridges. Two line memory and permanent memory, for storing frequently used formats and phrases. Central logic unit, and 20 character capacity display. Electrical characteristics are from 115-220V power source at a frequency range. 50-60Hz. Overall dimensions 24"W x 9.2"H x 19.4"D, Weight 41.5 lbs. Quantity required: 2

ET121 typewriter consists of an electronic key board with selector switches and function keys. Print unit with single interchangeable (daisy wheel) printing element and ribbon cartridge. One-line memory for automatic correction of characters, words or sentences. Electrical characteristics are from 115-220V power source at a frequency of 50-60 Hz. Overall dimensions 24"(W) x 9.2"(H) x 19.4"(D). Weight 41.5 lbs. Quantity required: 6

DICTATION/TRANSCRIBER	SUGGESTED QUANTITY:	SEE BELOW
ITEM: A-5	ESTIMATED UNIT PRICE:	\$610/350
LOCATION: ADMINISTRATION	BUDGET TOTAL:	\$2620

MANUFACTURER: Philips Business Systems Inc.

MODEL NO.: Tracer Track 101, NT-II

DESCRIPTION: Transcriber; visual and electronic indexing, automatic search and stop and automatic rewind with time scale reset. L.E.D. function indicators and tape termination warning tones. Overall dimensions 9½"W x 7½"D x 4½"H.
Quantity Required: 2

ACCESSORIES: Foot control, headset & tracer track cassette.

Portable Dictating Unit; single control, start/stop and fast forward/rewind. Noise screen control, end tape warning tone and 30 minute recording capacity. Overall dimensions 5½" x 2-7/16" x 3/4".
Quantity Required: 4

ACCESSORIES: Telephone recording adaptor, A.C. adaptor & tracer track cassette.

POSTAGE METER	SUGGESTED QUANTITY:	1
ITEM: A-6	ESTIMATED UNIT PRICE:	\$1,938
LOCATION: ADMINISTRATION	BUDGET TOTAL:	\$1,938

MANUFACTURER: Pitney Bowes
Postage meters & mailing systems

MODEL NO.: Model to be determined by Office Manager
per postal count and facility needs.

SPECIAL NOTES: Budget total based on model 5460 postage
meter mailing machine.

POSTAGE SCALE

SUGGESTED QUANTITY: 1

ITEM: A-7

ESTIMATED UNIT PRICE: \$38

LOCATION: ADMINISTRATION

BUDGET TOTAL: \$38

MANUFACTURER: Pelouze

MODEL NO.: Y-10

DESCRIPTION: Postal scale for office or shipping room.
10 lb. scale shows first class, air mail
and parcel post. Steel body with baked
enamel finish. 6½" x 6½" x 8½" high.

PAPER CUTTER	SUGGESTED QUANTITY:	1
ITEM: A-8	ESTIMATED UNIT PRICE:	\$115
LOCATION: ADMINISTRATION	BUDGET TOTAL:	\$115

MANUFACTURER: Ingento

MODEL NO.: 1152

DESCRIPTION: Paper cutting board with guard rail, handle, slide guide and replaceable, self-sharpening hardened tool steel blades. 18" square cutting area with metal rule calibrated in 1/16".

COPIER

SUGGESTED QUANTITY: 1

ITEM: A-9

ESTIMATED UNIT PRICE: \$6,000

LOCATION: ADMINISTRATION

BUDGET TOTAL: \$6,000

Model to be specified by office manager,
based on facility need and local supplier
service and lease capabilities

CHECK PROTECTOR	SUGGESTED QUANTITY: 1
ITEM: A-10	ESTIMATED UNIT PRICE: \$2,415
LOCATION: ADMINISTRATION	BUDGET TOTAL: \$2,415

MANUFACTURER: Burroughs Corporation

MODEL NO.: Electronic Control Center Disburser

DESCRIPTION: Check protector that accumulates check disbursements, protects, signs, proves and dates. Authorized amounts are shredded. Signature plate prints through a vari-colored ribbon. Protected amounts are added and accumulated and cannot be cleared without key. Not-resettable check counter reading.

RECORDS SAFE	SUGGESTED QUANTITY: 1
ITEM: A-11	ESTIMATED UNIT PRICE: \$6,100
LOCATION: ADMINISTRATION	BUDGET TOTAL: \$6,100

MANUFACTURER: Mosler, American Standard Company

MODEL NO.: 3360A

DESCRIPTION: Records Safe: "A: model, 4-hour, with modular interior including one small TL-15 money safe No. 368431, locker No. 1103 LKR, file drawer No. 11CF, and two card index drawers No. 1264-1. Outside dimensions: 75-7/8"H x 42-7/8"W x 31-3/4"D. Inside Dimensions: 60 1/4"H x 33-1/8"W x 20"D. Volume: 23.10 cu.ft. Double swing door.

SPECIAL NOTES: Class A to qualify with the Underwriters Laboratories, Inc. for fire exposure, impact, and explosion hazard test. These tests comply with U.S. Government Specifications AA-S-81 for 4-hour Class A safes.

TELEVISION	SUGGESTED QUANTITY:	1
ITEM: A-12	ESTIMATED UNIT PRICE:	\$650
LOCATION: ADMINISTRATION	BUDGET TOTAL:	\$650

MANUFACTURER: Zenith

MODEL NO.: S1942W

DESCRIPTION: 19" color television designed primarily for hotel use only essential controls are accessible to user. Controls under security panel include automatic fine-tuning, volume limiter, digital picture hold, filter synchronous detector, auto color clarifier & fringe-lock circuit. Unit is equipped standard with 5" oval speakers, VHF/UHF spotlight panel, shielded 75 OHM antenna input and 10' polarized AC power cord. AC input - 120V(NOM.) 60 Hz. Estimated power consumption averages 88 watts. Overall dimensions 16.38"(H) x 26.0"(W) x 17.0"(D). Weight 54.4 lbs.

REFRIGERATOR	SUGGESTED QUANTITY:	1
ITEM: A-13	ESTIMATED UNIT PRICE:-	\$650
LOCATION: ADMINISTRATION	BUDGET TOTAL:	\$650

MANUFACTURER: Whirlpool Corporation

MODEL NO.: EHT 141 JK

DESCRIPTION: High-efficiency refrigerator with 3.45 CU.FT. freezer capacity and 10.67 CU.FT. refrigeration capacity. No frost. Overall dimensions: 63½"H x 28"W x 28"D.

SLIDE PROJECTOR	SUGGESTED QUANTITY: 1
ITEM: A-14	ESTIMATED UNIT PRICE: \$500
LOCATION: ADMINISTRATION	BUDGET TOTAL: \$500

MANUFACTURER: Kodak

MODEL NO.: 5600

DESCRIPTION: Slide projector with carrying case. Projector is equipped with slide scan built-in screen; automatic focus; dust cover; variable-time automatic slide change; roomlight outlet; spare lamp storage compartment; remote focusing; remote accessory outlet; remote control; Hi-Lo lamp switch and ektanar c 102 MM f/2.8 lens.

PORTABLE PROJECTION SCREEN	SUGGESTED QUANTITY:	1
ITEM: A-15	ESTIMATED UNIT PRICE:	\$150
LOCATION: ADMINISTRATION	BUDGET TOTAL:	\$150

MANUFACTURER: DA-LITE Screen Company Inc.

MODEL NO.: Picture King 60"

DESCRIPTION: Projection screen with 60" x 60" silver lenticular picture surface and black border masking. Baked enamel steel octagonal case and chrome plated cast end caps with nylon bearing. Chrome plated square seamless steel center and extension tubes. Heavy gauge extruded aluminum legs with automatic leg locks.

COFFEE/TEA MAKER	SUGGESTED QUANTITY: 1
ITEM: A-16	ESTIMATED UNIT PRICE: \$275
LOCATION: ADMINISTRATION	BUDGET TOTAL: \$275

MANUFACTURER: Cecilware Corporation

MODEL NO.: ES-12

DESCRIPTION: Energy saver stainless steel coffee brewer. Disposable filters, hi-limit control (automatic shut off) 2 on/off warmer switches with indicator lamps. Instant recovery fresh water heat pump system with no storage tank. Overall dimensions 8"W x 15"D x 18"H.

ACCESSORIES: Model CBL glass decanters

STAPLER	SUGGESTED QUANTITY:	15
ITEM: A-18	ESTIMATED UNIT PRICE:	\$17
LOCATION: ADMINISTRATION	BUDGET TOTAL:	\$255

MANUFACTURER: Swingline

MODEL NO.: 747

DESCRIPTION: Stapler loads with strip of 210 standard staples movable anvil. Base swings free for tacking heavy steel stapling head length 8½" throat depth 4".

SCISSORS	SUGGESTED QUANTITY:	15
ITEM: A-19	ESTIMATED UNIT PRICE:	\$12
LOCATION: ADMINISTRATION	BUDGET TOTAL:	\$180

MANUFACTURER: Clauss Cutlery

MODEL NO.: 3768

DESCRIPTION: 8" scissors have a cutting length of 4-5/8" and are forged of cutlery grade nickel plated blades with double sharp point for cutting card and paper stock. Handles are black enamel coated.

RULERS	SUGGESTED QUANTITY:	15
ITEM: A-20	ESTIMATED UNIT PRICE:	\$5
LOCATION: ADMINISTRATION	BUDGET TOTAL:	\$75

MANUFACTURER: Acme United Westcott

MODEL NO.: R590-12

DESCRIPTION: Stainless steel ruler with raised edge. Graduations are permanently acid etched. First inch has 1/32" graduations other graduations are 1/16". Ruler also has millimeter scale.

CONFERENCE ROOM FURNISHINGS	SUGGESTED QUANTITY:	1 LOT
ITEM: A-22	ESTIMATED UNIT PRICE:	N/A
LOCATION: ADMINISTRATION	BUDGET TOTAL:	\$35,000

To be specified and supplied by others,
and subject to architect's approval

VIP ROOM FURNISHINGS

SUGGESTED QUANTITY: 1 LOT

ITEM: A-23

ESTIMATED UNIT PRICE: N/A

LOCATION: ADMINISTRATION

BUDGET TOTAL: \$25,000

To be specified and supplied by others,
and subject to architect's approval

Operations 4

Wall Clocks	Extension Cords
Time Recorder & Card Rack	Key Machine
I.D. Camera	Wet/Dry Vacuum
Bulletin Boards, Closed	Long-Handled Tools
Bulletin Boards, Open	Portable Grinder
Delete	Sabre Saw
Plan Hold Racks	Belt Sander
Drafting Table	Router
Lockable Storage Cabinets	Table Saw
Exterior Flags	Radial-Arm Saw
Ladders, Assorted	Belt & Disc Sander
Uniforms with Emblems	Dust Collector
Workbenches	Jointer
Utility Vise	Storage Shelving
Wood Vise	Dressing Room Furnishings
Pipe Vise	Cart - 1 Passenger
Hand Tools	Cart - 2 Passenger
Electrical Test Instruments	Cart - 4 Passenger
Workbench Stools	Panel Truck
Tool Cart	Passenger Auto
Tool Box	Three-Wheeled Bicycles
Flammable Storage Cabinet	Electric Lift Truck
Electric Drills	Hand Truck
Drill Press	4-Wheel Dollies
Pedestal Grinder	Pallet Trucks
Band Saw	Platform Trucks
Circular Saw	Pallet
Portable Welder - Electric	Battery Charger, Portable

OPERATIONS, CONTINUED

24 Yard Trash Carts	Communication System
Janitor Carts	Sign Machine
Janitor Hose	
Automatic Floor Scrubber	
Rotary Floor Machine	
Ride-On Scrubber	
Outdoor Vacuum	
Vacuum Sweepers	
Carpet Shampooers	
Pressure Steam Cleaner	
Electric Truck	
Mop Buckets	
Mops	
Dust Mops	
Brooms	
Caution Sign (West Floor)	
Dust Pans	
Hoses 50'	
Glass Cleaning Equipment	
Extension Bulb Changer	
Flashlights	
Emergency Lanterns	
Security Chains & Padlocks	
Employee Lockers	
Elevated Work Platform	

TOTAL: \$434,796

WALL CLOCK	SUGGESTED QUANTITY:	4
ITEM: O-1	ESTIMATED UNIT PRICE: -	\$110
LOCATION: OPERATIONS	BUDGET TOTAL:	\$440

MANUFACTURER: Peter Pepper Products

MODEL NO.: 300 P

DESCRIPTION: Wall clock with quartz crystal movement
operated by 1.5 volt alkaline battery 10"
diameter with Plexiglas cover.

TIME RECORDER&CARD RACK	SUGGESTED QUANTITY:	2
ITEM: O-2	ESTIMATED UNIT PRICE:	\$675
LOCATION: OPERATIONS	BUDGET TOTAL:	\$1350

MANUFACTURER: Simplex Time Recorder Co.

MODEL NO.: TR-2C Time recorder

2607 - Card racks holding 25 cards each.
To be wall-mounted.

Time cards.

Printing ribbon cassettes

DESCRIPTION: Time recorder. Vertical printing model in military time format. One hand, one second trigger trip operation. Steel type wheels. Automatic 2-color auditing device to indicate early and late irregularities. Time accumulator for daylight saving time re-set and power interruption auxiliary source.

IDENTIFICATION CAMERA	SUGGESTED QUANTITY:	1
ITEM: 0-3	ESTIMATED UNIT PRICE:	\$900.
LOCATION: OPERATIONS	BUDGET TOTAL:	\$900.

MANUFACTURER: Identatronics

MODEL NO.: 4+4

DESCRIPTION: Identification system is a self contained system with automatic, light focusing, multiple photo image capabilities and double exposure lock off. The system is equipped with electronic time/developer, strobe and photo die cutter. A 4" laminator seals I.D. cards and a slot punch accommodated the use of clips or straps.

BULLETIN BOARD - CLOSED	SUGGESTED QUANTITY:	4
ITEM: O-4	ESTIMATED UNIT PRICE:	\$620
LOCATION: OPERATIONS	BUDGET TOTAL:	\$2480

MANUFACTURER: Architectural Signing Northwest, Inc.

MODEL NO.: 450 Series

DESCRIPTION: Bulletin board (closed) consists of an extruded aluminum case with hinged, lockable, clear glass door. All aluminum surfaces anodized. Overall dimensions: 36" x 44". Supplied with tackboard insert and 4" header. Provide two keys.

BULLETIN BOARD - OPEN	SUGGESTED QUANTITY:	2
ITEM: O-5	ESTIMATED UNIT PRICE:	\$525
LOCATION: OPERATIONS	BUDGET TOTAL:	\$1050

MANUFACTURER: Architectural Signing Northwest, Inc.

MODEL NO.: 440 Series

DESCRIPTION: Bulletin board (open) consists of an extruded aluminum case without a cover. All aluminum surfaces anodized. Supplied with tackboard insert and 4" header. Overall dimensions: 32" x 43".

PLAN HOLD RACK	SUGGESTED QUANTITY:	2
ITEM: O-7	ESTIMATED UNIT PRICE:	\$745
LOCATION: OPERATIONS	BUDGET TOTAL:	\$1490

MANUFACTURER: K & E (Hamilton)

MODEL NO.: 65-2375-30

DESCRIPTION: Plan hold rolling stand. Square tube steel construction, with reinforced height extension and 24 binders on pivot bracket. Maximum sheet size 30" x 42". Overall dimensions: 34"-46"H x 24-3/4"W x 66"D.

DRAFTING TABLE	SUGGESTED QUANTITY:	1
ITEM: O-8	ESTIMATED UNIT PRICE:	\$1110
LOCATION: OPERATIONS	BUDGET TOTAL:	\$1110

MANUFACTURER: K & E (Hamilton)

MODEL NO.: M-12/80-640422

DESCRIPTION: Drafting table of all steel construction with cellular core drawing surface 37½" x 72". Adjustable board counter-balance, 12" of board height travel and 80° of tilt. A reversible sliding reference surface drawer.

ACCESSORIES: Two drawer file unit
Model No. 64-0433

LOCKABLE STORAGE CABINET	SUGGESTED QUANTITY:	12
ITEM: O-9	ESTIMATED UNIT PRICE: -	\$350
LOCATION: OPERATIONS	BUDGET TOTAL:	\$4200

MANUFACTURER: Equipto

MODEL NO.: 1715

DESCRIPTION: Storage cabinet of all steel construction, with baked enamel finish with double swing doors that use a 3-point locking device. Chrome-plated steel handle with keyed lock. Unit includes 4 shelves, adjustable at 2" centers, and also included individual and master key sets. Overall dimensions: 78"H x 36"W x 24"D.

EXTERIOR FLAGS	SUGGESTED QUANTITY:	2 EA.
ITEM: O-10	ESTIMATED UNIT PRICE:	\$225
LOCATION: OPERATIONS	BUDGET TOTAL:	\$1,350

MANUFACTURER: Admiral Flag

MODEL NO.: See Below

DESCRIPTION: Outdoor flags made from long cotton fibre. Fast dyes for reduced weathering, trailing end hemmed and reinforced with three rows of stitching and rope heading. Flag dimensions 5'x8'.

207 cotton american flag

221 cotton Massachusetts state flag

Wind-Master custom Boston city flag

LADDERS ASSORTED	SUGGESTED QUANTITY:	1 LOT
ITEM: O-11	ESTIMATED UNIT PRICE:	\$1390
LOCATION: OPERATIONS	BUDGET TOTAL:	\$1390

MANUFACTURER: Columbia Ladder Company

MODEL NO.: See below

DESCRIPTION:

- (2) 4 foot wood construction step ladder.
- (2) 8 foot wood construction step ladder.
- (2) 12 foot wood construction step ladder.
- (1) 14 foot extension trestle. Section length 14 feet. Extended length 25 feet. Wood construction.
- (1) 20 foot extension ladder. Section length 20 feet. Extended length 36 feet. Wood construction.

SPECIAL NOTES: All ladders are U.L. and OSHA approved.

UNIFORMS WITH EMBLEMS	SUGGESTED QUANTITY:	75
ITEM: O-12	ESTIMATED UNIT PRICE:	\$30
LOCATION: OPERATIONS	BUDGET TOTAL:	\$2,250

MANUFACTURER: Coveralls Fiber Industries, Inc.

MODEL NO.: CT 10

DESCRIPTION: Uniforms of 65% polyester and 35% cotton bi-swing action back, two-way front zipper 7-3/4 oz. twill durable press, uniforms have two breast pockets side vent openings and ruler pocket.

SPECIAL NOTES: Graphics for emblems to be supplied to manufacturer.

WORK BENCHES	SUGGESTED QUANTITY:	14 Assort.
ITEM: O-13	ESTIMATED UNIT PRICE:	N/A
LOCATION: OPERATIONS	BUDGET TOTAL:	\$7,800

MANUFACTURER: Equipto
MODEL NO.: See below

DESCRIPTION: Workbench - Series 2500 each supplied with #6122 bottom shelves. Large steel top, open construction, with standard components. Top 72" x 36", 12 gauge steel.
Quantity required: 3
Accessories:
2) #8 drawer cabinet
6) 220-2 drawers

Workbench - Model 255-6
Closed steel bench drawer and cabinet unit. Four drawers each 6½"H x 15"W x 23-3/4"D with cabinet pedestal with swing open door. Cabinet pedestal dimensions 34-1/8"H x 27½"D x 15"W. 12 gauge top with 4" high back rail. Overall dimensions 34-1/8"H x 27½"D x 72"W.
Quantity required: 3

Workbench - Model 260
Closed steel bench with double drawer pedestal. Each with four drawers 6½"H x 15"W x 23-3/4"L. 12 gauge steel top with 4" back rail. Overall dimensions 34-1/8"H x 27½"D x 72"W.
Quantity required: 2

Workbench - Model 250
Closed steel bench with double cabinet unit. Each to be supplied with swing open door and one removable shelf. Pedestal dimensions: 34-1/8"H x 27½"D x 15"W. 12 gauge steel top with 4" high back rail. Overall dimensions: 34-1/8"H x 27½"D x 72"W.
Quantity required: 3

Continued next page

WORK BENCHES, CONTINUED

MANUFACTURER: Equipto

DESCRIPTION: Workbench - Model 275
Closed steel bench with channeled smooth-sliding doors with tumbler locks, chrome handles and recessed closed base. Each unit has an intermediate shelf and 12 gauge steel top with 4" high back rail. Overall dimensions: 34-1/8"H x 27 1/2"D x 72"W. Quantity required: 3

UTILITY VISE	SUGGESTED QUANTITY:	4
ITEM: 0-14	ESTIMATED UNIT PRICE:	\$60
LOCATION: OPERATION	BUDGET TOTAL:	\$240

MANUFACTUER: Ridgid

MODEL NO.: 4000R

DESCRIPTION: Utility vise, swivel base, pipe vise and
anxil. A steel channel slide and tempered
steel 4" jaws. 2" pipe capacity and 5"
jaw opening.
Vise weight 27 lbs.

ACCESSORIES: One set of copper vise jaw covers 4".

WOOD VISE	SUGGESTED QUANTITY:	2
ITEM: 0-15	ESTIMATED UNIT PRICE:	.\$30
LOCATION: OPERATIONS	BUDGET TOTAL:	\$60

MANUFACTURER: Stanley

MODEL NO.: 80-700

DESCRIPTION: Woodworkers vise cast metal body with replaceable tempered hard wood jaw faces jaw width is 4-5/8" and has an opening capacity of 3½" vise flush mounts to bench.

PIPE VICE	SUGGESTED QUANTITY:	1
ITEM: O-16	ESTIMATED UNIT PRICE:	\$210
LOCATION: OPERATIONS	BUDGET TOTAL:	\$210

MANUFACTURER: Rigid

MODEL NO.: 450

DESCRIPTION: Pipe vise - top screw chain type on portable trisland. Integral legs and tray fold in. Equipped with 3 pipe benders and ceiling brace screw. Capacity 1/8" through 5".

HAND TOOLS	SUGGESTED QUANTITY:	1 LOT
ITEM: O-17	ESTIMATED UNIT PRICE:	\$5,000
LOCATION: OPERATIONS	BUDGET TOTAL:	\$5,000

MANUFACTURER: Proto/Ingersol Rand

MODEL NO.: 9107XHD

DESCRIPTION: Complete set of mechanic's hand tools with full range of wrenches, pliers, drivers, hammers, cutting tools, and measuring gauges for various applications, with extra heavy duty roller cabinet and top chest.

MANUFACTURER: Stanley Tools

MODEL NO.: N/A

DESCRIPTION: Complete set of carpentry handtools, with a full range for various applications of cutting, shaping, measuring, driving, and clamping.

ELECTRICAL TEST INSTRUMENTS	SUGGESTED QUANTITY:	2 SETS
ITEM: O-18	ESTIMATED UNIT PRICE:	\$605
LOCATION: OPERATIONS	BUDGET TOTAL:	\$1210

MANUFACTURER: Amprobe Instrument Co.

MODEL NO.: See below

DESCRIPTION: TM-43A: Clamp-on rotary scale measures AC amps, AC volts, and ohms. AC current scales: 0-15/40/100/300/1000. AC voltage scales: 0-150/300/600. Permits readings on equipment with 2-conductor line cord, and phase dequence adapter for phase sequence determination of 3-phase circuits. Unit is equipped with 25 ohm midscale ohmmeter and with built-in manually set, surge indicating capability of 1/6 second or longer. Calibrated for 60Hz.

TAM-3B: Multimeter can withstand application of 220 volts for $\frac{1}{2}$ minute. Unit has 3 color-coded scale/switch plates, is fully insulated and reads voltage ranges: AC 0-30/150/300/750 (10,000 ohms/V); DC 0-3/30/150/300 (1000,000 ohms/V). Resistance ranges: 0-500/5000/50,000 ohms and 0-5 megohms. Millivolt ranges: 0-75/750/1500mVDC. Overall dimensions: $5\frac{1}{4}$ "W x $7\frac{1}{2}$ "H x $3\frac{1}{4}$ "D. Includes universal temperature probe and thermocouple.

AMB-1: Megohmmeter tests megohm range, sensitive ohm range, live circuit AC/DC voltage test and battery test. Ranges: 0-100 megohms, test voltage 500 VDC; 0-100 ohms open circuit voltage 300 mV; 0-600 VAC/VDC test band. Powered by 8AA batteries.

WORKBENCH STOOLS	SUGGESTED QUANTITY:	15
ITEM: O-19	ESTIMATED UNIT PRICE:	\$45
LOCATION: OPERATIONS	BUDGET TOTAL:	\$675

MANUFACTURER: Equipto

MODEL NO.: 1424-12

DESCRIPTION: Workbench stools of all steel construction with steel seat and steel back with steel guides. Seat 24" high.

TOOL CART	SUGGESTED QUANTITY:	2 EA.
ITEM: O-20	ESTIMATED UNIT PRICE:	\$255/\$280
LOCATION: OPERATIONS	BUDGET TOTAL:	\$1070

MANUFACTURER: Kennedy Manufacturing Co.

MODEL NO.: 432/436

DESCRIPTION: Model 432 2-drawer tool cart
2-drawer 16-9/16"W x 12-3/16"D x 3-7/8"H
1 compartment 20-7/16"W x 12-3/4"D x 16-5/8"H

Model 436 6-drawer tool cart
1-drawer 16-9/16"W x 12-3/16"D x 1-13/16"H
4-drawer 16-9/16"W x 12-3/16"D x 3-7/8"H
1-drawer 16-9/16"W x 12-3/16"D x 5-1/8"H

Tool cart drawer cabinet and platform two 10" ball bearing steel rim wheels with solid rubber tires and two 5" swivel casters. Cabinet and drawers are double wall construction. Drawer slides are two piece plated to accommodate drawer removal. Tool carts are supplied with cylinder locks and two sets of keys. Overall dimensions 20-13/16"W x 43-1/8"D x 35"H.

TOOL BOX	SUGGESTED QUANTITY:	2 EA.
ITEM: O-21	ESTIMATED UNIT PRICE:	\$300/\$270
LOCATION: OPERATIONS	BUDGET TOTAL:	\$1140

MANUFACTURER: Kennedy Manufacturing Co.

MODEL NO.: 295/297

DESCRIPTION: Model 295 5-drawer cabinet
3-drawer 25"W x 18½"D x 1-13/16"H
2-drawer 25"W x 18½"D x 3-7/8"H
1 compartment 26-1/8"W x 19-3/4"D x 11½"H

Model 297 7-drawer cabinet
3-drawer 25"W x 18½"D x 1-13/16"H
3-drawer 25"W x 18½"D x 3-7/8"H
1-drawer 25"W x 18½"D x 5-1/8"H

Tool cabinet and drawers are double wall construction drawer slides are two piece plated to accommodate drawer removal. Drawer are provided with wool felt liner. Exposed edges are rolled and flattened. Cabinets equipped with cylinder locks and two key sets.

SPECIAL NOTES: To be used with model 432 & 436 tool cart.

FLAMMABLE STORAGE CABINET	SUGGESTED QUANTITY:	2
ITEM: O-22	ESTIMATED UNIT PRICE:	\$790
LOCATION: OPERATIONS	BUDGET TOTAL:	\$1580

MANUFACTURER: Lyon

MODEL NO.: 5445

DESCRIPTION: Flammable storage cabinet with fusible, automatic door closing link activated at 160°F. Double wall 18 gauge steel construction with 2" deep pan-type bottom and two 2" flame arrestor vents with plugs. Equipped with adjustable shelves, leveling feet, and 3-point latch and key lock. Overall dimensions: 43"W x 18"D x 65½"H.

SPECIAL NOTES: Cabinet to meet OSHA and NFPA requirements.

ELECTRIC DRILLS	SUGGESTED QUANTITY:	6
ITEM: O-23	ESTIMATED UNIT PRICE:	N/A
LOCATION: OPERATIONS	BUDGET TOTAL:	\$850

MANUFACTURER: Milwaukee

MODEL NO.: See below

DESCRIPTION: 0102-1 REV - Quantity required: 2
Variable speed, reversing $\frac{1}{2}$ " drive electric drill. 120 volt motor. No load speed variable 0-2500 RPM; single gear train; spindle #1 Jacobs Taper; 8-3/8" long.

0222-1 REV - Quantity required: 2
Variable speed, reversing 3/8" drive electric drill. 120 volt motor. No load speed variable 0-1000 RPM; double gear train; spindle #2 Jacobs Taper; 9 $\frac{1}{2}$ " long.

1600-1 REV - Quantity required: 1
 $\frac{1}{2}$ " drive, reversible, electric drill. 115 volt motor. No load speed 600 RPM; double gear train; spindle diameter and thread 5/8" - 16. 12 $\frac{1}{2}$ " long.

5399 - Quantity required: 1
 $\frac{1}{2}$ " drive electric drill hammer 120V motor 19000 blows per min. No load speed 950 RPM. Drill motor kit contains depth rod side handle, a chuck key in a 20 gauge steel case.

DRILL PRESS	SUGGESTED QUANTITY:	1
ITEM: O-24	ESTIMATED UNIT PRICE:	\$1300
LOCATION: OPERATIONS	BUDGET TOTAL:	\$1300

MANUFACTURER: Powermatic

MODEL NO.: 1150-A

DESCRIPTION: 15" drill press with calibrated variable-speed control that allows speed range from 475 RPM through 4800 RPM. Steel spindle 10 spine Jacobs taper with 0 to 1/2" chuck capacity. Spindle travel 6", 180° tilt. Production table overall height 66".

SPECIAL NOTES: 64-70707 3/4 HP 1800 motor
2398525 Magnetic control with 24V transformer

PEDESTAL GRINDER	SUGGESTED QUANTITY:	1
ITEM: O-25	ESTIMATED UNIT PRICE:	- \$1100
LOCATION: OPERATIONS	BUDGET TOTAL:	\$1100

MANUFACTURER: Baldor Electric Company

MODEL NO.: 8123W-DC8-3

DESCRIPTION: 8" pedestal grinder complete with self-contained dust collector providing 220DFM per wheel as required by OSHA. On cast-iron pedestal base. Grinder motor 3/4 HP, 3450 RPM, 200V, 60Hz, 3Ø. Grinder supplied with (1) fine grit aluminum oxide grinding wheel and (1) medium grit aluminum oxide grinding wheel. With code required starter and on-off switches. Unit requires floor anchoring.

ACCESSORIES: 1 pair GA-9 lighted eye shields, glass size 6" x 4", internally wired, provided with two light bulbs.

1 GA-25 tool tray, 8" diameter, complete with mounting bracket and swivel arm.

1 GA-24 water pot, complete with mounting bracket and swivel arm. Capacity 1½ pints.

1 ARB1 replacement dust filter bag.

SPECIAL NOTES: Lighted eye shields are to be integrally wired to operate with the grinder on-off switch with the shortest lengths of wire practical and properly dressed to the unit.

BAND SAW	SUGGESTED QUANTITY:	1
ITEM: O-26	ESTIMATED UNIT PRICE:	-\$1875
LOCATION: OPERATIONS	BUDGET TOTAL:	\$1875

MANUFACTURER: Powermatic

MODEL NO.: 143

DESCRIPTION: 14" band saw with one-piece cast-iron frame, two-speed transmission, 15" x 15" tilt production table. Equipped with ball-bearing and hardened steel side guided blade length 94" to 96". Overall dimensions 71"H x 25½"W x 13½"D.

SPECIAL NOTES: 6470707 3/4 HP, 60Hz 1800 RPM, 2 phase motor
2398435 magnetic controls with 24V transformer

CIRCULAR SAW	SUGGESTED QUANTITY:	1
ITEM: O-27	ESTIMATED UNIT PRICE:	\$125
LOCATION: OPERATIONS	BUDGET TOTAL:	\$125

MANUFACTURER: Milwaukee

MODEL NO.: 6365

DESCRIPTION: Circular saw with 7 $\frac{1}{4}$ " blade size. 120 volt, 13 amp, 2HP, 5800 RPM motor. 5/8" arbor. 2 7/16" deep cut at 90°, 1 27/32" deep cut. Includes combination saw blade and 9/16" wrench, and cord and plug.

PORTABLE ELECTRIC WELDER	SUGGESTED QUANTITY:	1
ITEM: O-28	ESTIMATED UNIT PRICE:	\$200
LOCATION: OPERATIONS	BUDGET TOTAL:	\$200

MANUFACTURER: Miller Electric Manufacturing Co.

MODEL NO.: Thunderbolt 225 VP 901 863 Welder

040 874 No. 11 Running Gear

040 604 No. 1TWA Accessory package.

DESCRIPTION: Compact AC welder. Rated welding current 225 amps at 25 volts, 20% duty cycle. Welding current ranges: high 40-225 amps; low 30-150 amps. Equipped with 3 conductor primary cable, Hubbell No. 26519 plug, and two welding cable plugs. Provide Hubbell 26521 receptacle, Hubbell 26401 cast aluminum box, and Hubbell 26402 aluminum cover. 21½"H x 12½"W x 14"D.

ACCESSORIES: 040 874 No. 11 Running gear: Two 5" rubber tired wheels and handle installed on unit.

040 604 No. 1TWA Welding accessory package; Contains 15 feet No. 4 electrode cable with electrode holder, 10 feet No. 4 ground cable with clamp, and welding helmet.

EXTENSION CORDS	SUGGESTED QUANTITY:	12
ITEM: O-29	ESTIMATED UNIT PRICE:	N/A
LOCATION: OPERATIONS	BUDGET TOTAL:	\$425

MANUFACTURER: Electrical Conductors

MODEL NO.: 01618 - 50 foot
01619 - 100 foot

DESCRIPTION: 50-100 foot extension cords with Neoprene thermoplastic jacket. Round cord construction. Moisture proof for outdoor use. Equipped with three-prong male and female heavy-duty molded plug and outlet. For 15 amps, 125-volt use.

KEY MACHINE	SUGGESTED QUANTITY:	1
ITEM: O-30	ESTIMATED UNIT PRICE: -	\$500
LOCATION: OPERATIONS	BUDGET TOTAL:	\$500

MANUFACTURER: Hoffman Products Co.

MODEL NO.: Speedex "MC" Model
HP - 9110MC

DESCRIPTION: Key machine that duplicates cylinder and disc tumbler keys. Supplied with a milling cutter and 110 VAC, 1/6 HP, 1725 RPM motor. Machine and motor mounted on a 14½" x 11" x 1" metal base.

WET/ DRY VACUUM	SUGGESTED QUANTITY:	4
ITEM: O-31	ESTIMATED UNIT PRICE:	-\$290
LOCATION: OPERATIONS	BUDGET TOTAL:	\$1116

MANUFACTURER: Milwaukee

MODEL NO.: 8955

DESCRIPTION: Wet/dry vacuum with one stage bypass motor 120 AC 60Hz 6amp. Steel tank with 10 gallon recovery capacity. Maximum air flow 121 CFM, sealed suction in water 50". Vacuum is equipped with 1- $\frac{1}{2}$ " O.D. hose connection cord with 3 prong grounded plug, 3 vinyl covered hold-down clamps and caddie with nonmarring wheels.

ACCESSORIES: 49-90-1670 Wet and dry cleaning kit.

49-90-0170 Hose carrier.

LONG-HANDLED TOOLS**SUGGESTED QUANTITY: 1-LOT****ITEM: O-32****ESTIMATED UNIT PRICE: \$335****LOCATION: OPERATIONS****BUDGET TOTAL: \$335**

MANUFACTURER: Ames**MODEL NO.: See below****DESCRIPTION:**

12-007 Round point shovel, with 49" long handle. 9½" x 12" blade. Northern Ash handle.

Quantity required: 2

12-003 Square point shovel, with 49" long handle. 9 3/4" x 12" blade. Northern Ash handle.

Quantity required: 5

19-237 Rake with flexible tines. Spring brace 24-tine lawn rake. 54" handle, 23½" wide.

Quantity required: 2

18-470 Garden hoe. Shank patter, smooth finish blade. 6½" x 4½" blade, 52" handle.

Quantity required: 2

16-463 Sidewalk scraper of deluxe socket type. 48" handle, 7" x 6" blade.

Quantity required: 2

18-813 Forged bow rake. 1 piece, 16 teeth, 16-3/4" head width, 60" handle.

Quantity required: 2

PORTABLE GRINDER

SUGGESTED QUANTITY: 1

ITEM: O-33

ESTIMATED UNIT PRICE: \$270

LOCATION: OPERATIONS

BUDGET TOTAL: \$270

MANUFACTURER: Milwaukee

MODEL NO.: 6022

DESCRIPTION: Grinder-sander, 7" electric. 5000 RPM, 110V, 13 amp motor. Spindle thread 5/8" to 11". Supplied with 7" phenolic resin backing disc assembly and disc retaining nut. One each 36 and 60 grit 7" diameter sanding disc. 16½" long.

SABER SAW	SUGGESTED QUANTITY:	1
ITEM: O-34	ESTIMATED UNIT PRICE:	\$215
LOCATION: OPERATIONS	BUDGET TOTAL:	\$215

MANUFACTURER: Milwaukee

MODEL NO.: 6287

DESCRIPTION: Sabre saw with variable speed 0-3900 strokes per minute, 3/4" strokes. Pivoting cutting head adjustable right or left to 45°. 2.3 amps with cord and plug. 8½"L x 3½"W x 6½"H.

ACCESSORIES: Metal carrying case.

Jig Saw Blade Card No. 49-22-1160
Includes a combination circle and rip guide, two socket wrenches, extra blade clamp screw and one key holder.

BELT SANDER	SUGGESTED QUANTITY:	1
ITEM: O-35	ESTIMATED UNIT PRICE: -	\$250
LOCATION: OPERATIONS	BUDGET TOTAL:	\$250

MANUFACTURER: Milwaukee

MODEL NO.: 5900

DESCRIPTION: Belt sander with 3" x 24" belt, 9.5 amp
120 AC motor rated at 1700 SFPM. Includes
120 grit sanding belt.

ACCESSORIES: 48-09-0100 Vacuum bag kit

ROUTER

SUGGESTED QUANTITY: 1

ITEM: O-36

ESTIMATED UNIT PRICE: . \$195

LOCATION: OPERATIONS

BUDGET TOTAL: \$195

MANUFACTURER: Milwaukee

MODEL NO.: 5660

DESCRIPTION: Router: 10 AMP, 1.5 HP at 24,500 RPM with $\frac{1}{4}$ ", $\frac{3}{8}$ ", & $\frac{1}{2}$ " collet capacities. Adjusting ring marked in 1/64 graduations. All ball bearing motor and heavy duty aluminum alloy sub-base.

TABLE SAW	SUGGESTED QUANTITY:	1
ITEM: O-37	ESTIMATED UNIT PRICE:-	\$1900
LOCATION: OPERATIONS	BUDGET TOTAL:	\$1900

MANUFACTURER: Powermatic

MODEL NO.: 66

DESCRIPTION: Table saw with 10" tilting arbor and 28" x 38" machined top surface with cast reinforced ribs. 5/8" arbor mounted in sealed bearings. Blade tilts 45° with a 2-1/8" cut, and 3-1/8" at 90°. Fence locks at front and back on graduated scale tubular guide rails adjusted by means of steel pinion operating in guide rail rack. Motor is 2HP, 60Hz, 3600 RPM, with 24 volt transformer and magnetic controls.

RADIAL ARM SAW	SUGGESTED QUANTITY:	1
ITEM: O-38	ESTIMATED UNIT PRICE:-	\$550
LOCATION: OPERATIONS	BUDGET TOTAL:	\$550

MANUFACTURER: DeWalt

MODEL NO.: 7770

DESCRIPTION: Radial arm saw has 2½HP enclosed motor with automatic brake and dual voltage hook up. Two-piece backboard with precut well. Motor is 120/240 volt, 60Hz, 3450 RPM with 5/8" x 1½" arbor. Maximum cut depth 3" at 90° and 2-1/8" at 45°. Cross cut capacity 14½". Table overall dimensions: 26-3/8" x 36". Bevel locating pin at 0°, 45° and 90°, and miter locating latch at 0° and 45° right and left.

BELT & DISC SANDER	SUGGESTED QUANTITY:	1
ITEM: O-39	ESTIMATED UNIT PRICE:	\$1600
LOCATION: . OPERATIONS	BUDGET TOTAL:	\$1600

MANUFACTURER: Powermatic

MODEL NO.: 30-B

DESCRIPTION: Cast iron construction tilting table (45° out or 15° in), removable end guard, and tilting fence and miter gauge. Accommodates 6" x 48" belt on 4½" x 6-3/8" drums and 12" sanding disc. Overall dimensions 41-5/8"H x 33½"D x 22½"W.

ACCESSORIES: 2093009 - Stand with dust collector
6012001 - 1 pint disc cement

SPECIAL NOTES: Motor: 3 phase 647304 1½ HP (1.12KW)
60 Hz, 1800 RPM

Controls: 2398533 magnetic controls
with 24 volt transformer

DUST COLLECTOR	SUGGESTED QUANTITY:	1
ITEM: O-40	ESTIMATED UNIT PRICE:	\$4205
LOCATION: OPERATIONS	BUDGET TOTAL:	\$4205

MANUFACTURER: Murphy Rodgers

MODEL NO.: MRM-10

DESCRIPTION: Dust collector, totally steel enclosed with manual shaking mechanism and large partical protection through the exhaust system. Also suitable for metal and hot particals. Rated at 500 to 3800 C.F.M., using secondary multi-bag type filtration while equalizing building pressure and retaining building's warm air.

SPECIAL NOTES: Dust collector is to be equiped with magnetic switching electric shaker and silencer.

C.F.M. rating should be determind by building engineer.

JOINTER	SUGGESTED QUANTITY:	1
ITEM: O-41	ESTIMATED UNIT PRICE:-	\$1,250
LOCATION: OPERATIONS	BUDGET TOTAL:	\$1,250

MANUFACTURER: Powermatic

MODEL NO.: 50

DESCRIPTION: 6" jointer with fully adjustable infeed and outfeed tables mounted on dove-tailed ways to net 48" bed. Fence positively locks at any angle from 45° left and right with plunger lock at 90° and both left and right 45° position. Cutter head consists of 3 M-2 tool steel knives with jack screw type adjustment for a 3" cutting arc. Steel base cabinet with dust chute. Drive unit is mounted in sealed ball bearing.

SPECIAL NOTES: Motor: 6470810 - 3/4 HP, 60Hz, 3600 RPM.

STORAGE SHELVES	SUGGESTED QUANTITY:	250 FT.
ITEM: O-42	ESTIMATED UNIT PRICE:-	\$90/\$68
LOCATION: OPERATIONS	BUDGET TOTAL:	\$14,720/\$10,880

MANUFACTURER: Aurora Steel Products/Equipto

MODEL NO.: Q18C7T3688/73-7

DESCRIPTION: Storage shelves are all metal closed back & end, 88"H x 18"D x 36"W. Units have seven easily adjustable 18 gauge shelves with all flange on all sides turned in front and back. Shelf supports are steel ears to set into keyhole slots on uprights and adjust on 1" centers.

DRESSING ROOM FURNISHINGS

SUGGESTED QUANTITY: 1 LOT

ITEM: O-43

ESTIMATED UNIT PRICE: N/A

LOCATION: OPERATIONS

BUDGET TOTAL: \$1,000

To be supplied and specified by others,
and subject to architect's approval.

CART - ONE PASSENGER	SUGGESTED QUANTITY:	2
ITEM: O-44	ESTIMATED UNIT PRICE: -	\$1,525
LOCATION: OPERATIONS	BUDGET TOTAL:	\$3,050

MANUFACTURER: Cushman

MODEL NO.: Minute-Miser 320

DESCRIPTION: One-passenger electric cart with 16 gauge diamond plate floor board and 18 gauge unitized body with barbon steel bumper on coil spring, and shock absorber suspension. Powered by a 27 HP at 800 RPM motor. Cart has belt driven transmission and drum brakes. The electrical system is 24 volt using four 6-volt batteries. This system is intregally charged by a 110-volt AC automatic line compensating charger with timer. Overall dimensions: 82"L x 29 $\frac{1}{2}$ "W x 38"H. Standard equipemtn includes headlight, taillight, stoplight and horn.

ACCESSORIES: Hour meter and liftout battery rack.

CART - 2 PASSENGER	SUGGESTED QUANTITY:	2
ITEM: O-45	ESTIMATED UNIT PRICE:.	\$3,425
LOCATION: OPERATIONS	BUDGET TOTAL:	\$6,850

MANUFACTURER: Cushman

MODEL NO.: 322 Executive

DESCRIPTION: Two passenger electric cart. 16 gauge diamond plate steel floorboard with welded reinforcing members on a coil spring and shock absorber suspension and drum brakes, equipped with a triple V-belt drive. Powered by a 36-volt DC series wound motor rated at 5 HP at 800 RPM. The 36-volt system utilizes a sliding contact switch and 25 amp automatic line compensating built-in battery charger. Overall dimensions: 91-3/4"L x 43"W x 44 1/2"H. Standard equipment includes stop/tail light and horn.

ACCESSORIES: Cargo area set and lift out battery rack.

CART - FOUR PASSENGER	SUGGESTED QUANTITY:	1
ITEM: O-46	ESTIMATED UNIT PRICE:	\$5,725
LOCATION: OPERATIONS	BUDGET TOTAL:	\$5,725

MANUFACTURER: Cushman
MODEL NO.: 317 Titan

DESCRIPTION: Electric 4-passenger cart. 16 gauge diamond plate steel rear and front panel, and 12 gauge steel side body panels. On coil spring and shock absorber suspension with hydraulic braking system and triple V-belt drive. Power supplied by a 36-volt DC series motor rated at 8 HP at 1400 RPM. The system utilizes eight 6-volt batteries using sliding contact tapping unit, with an automatic line compensating charger. Overall dimensions: 124½"L x 49"W x 26½"H at the bed. Standard equipment includes brake/tail light and horn.

ACCESSORIES: Front and rear facing personnel seat, hourmeter and headlight set.

PANEL TRUCK	SUGGESTED QUANTITY:	2
ITEM: O-47	ESTIMATED UNIT PRICE: -	\$12,000
LOCATION: OPERATIONS	BUDGET TOTAL:	\$24,000

Vehicle make, model and options to be determined by local dealer fleet price bid and availability, including all warranties and guaranties, taxes, and licensing cost for the State of Louisiana.

PASSENGER AUTO	SUGGESTED QUANTITY:	2
ITEM: O-48	ESTIMATED UNIT PRICE:	\$9,500
LOCATION: OPERATIONS	BUDGET TOTAL:	\$19,000

Vehicle make, model and options to be determined by local dealer fleet price bid and availability, including all warranties and guaranties, taxes, and licensing cost for the State of Lousisiana.

THREE WHEELED BICYCLE	SUGGESTED QUANTITY:	2
ITEM: O-49	ESTIMATED UNIT PRICE:-	\$355
LOCATION: OPERATIONS	BUDGET TOTAL:	\$710

MANUFACTURER: Schwinn

MODEL NO.: AT2-8

DESCRIPTION: Three-wheeled bicycle model with electro-forged frame, 26-3/4" wheel with 105 gauge spokes on hardened steel ball-bearing race. Equipped with coaster brake and carrying basket.

ELECTRIC LIFT TRUCK	SUGGESTED QUANTITY:	4
ITEM: O-50	ESTIMATED UNIT PRICE:	\$32,500
LOCATION: OPERATIONS	BUDGET TOTAL:	\$128,000

MANUFACTURER: Caterpillar

MODEL NO.: M40B

DESCRIPTION: Electric Lift Truck: Powered by 48 volt, 765 ampere lead acid battery. Box type frame with .55 inch steel outer members providing 4-point lifting locations. Full free mast. 142" maximum fork height, 88.5" overall lowered height. Free fork height 64.5". Fork tilt forward 6°, back 10°. Load capacity 4900 lb at 16" load center to 2300 lb at 48" load center.

HAND TRUCK	SUGGESTED QUANTITY:	6
ITEM: O-51	ESTIMATED UNIT PRICE:	\$185
LOCATION: OPERATIONS	BUDGET TOTAL:	\$1,110

MANUFACTURER: Hamilton Caster & Manufacturing Co.

MODEL NO.: 74-10PR-SC

DESCRIPTION: Two-wheeled hand truck with magnesium frame. Frame height 48", width 12". Nose plate 14"W x 7½"D. 5/8" plated steel axle. Load capacity 500 lbs. 10" diameter pneumatic tires on ball bearings. Includes pistol handle grip and stair climbers.

4 - WHEELED DOLLIES	SUGGESTED QUANTITY:	6
ITEM: O-52	ESTIMATED UNIT PRICE:	\$165
LOCATION: OPERATIONS	BUDGET TOTAL:	\$990

MANUFACTURER: Equipto

MODEL NO.: 150D

DESCRIPTION: 4-wheel dollies are one piece tray construction with tubular posts and intergral handles, with 4"-deep beaded edge reversible steel trays. 5" rubber casters (2 swivel and 2 stationary). Dollies are designed to be used with add-on shelf units. Capacity 600 lbs. Overall dimensions: 24"W x 36"L x 36"H.

PALLET TRUCKS	SUGGESTED QUANTITY:	2
ITEM: O-53	ESTIMATED UNIT PRICE:	\$465
LOCATION: OPERATIONS	BUDGET TOTAL:	\$930

MANUFACTURER: BT Lift, Inc.

MODEL NO.: BTL 2000

DESCRIPTION: Pallet truck constructed of high-tensile steel frame with neutral position hydraulic lift lever, 4500 lb. lift capacity with 6" forks. Maximum 8" lift height.

PLATFORM TRUCKS	SUGGESTED QUANTITY:	2
ITEM: O-54	ESTIMATED UNIT PRICE:-	\$610
LOCATION: OPERATIONS	BUDGET TOTAL:	\$1,220

MANUFACTURER: Hamilton Caster & Manufacturing Co.

MODEL NO.: 1018A-R3672

DESCRIPTION: Platform truck constructed with 1" oak hardwood deck in steel angle frame with full length 3/16" angle longitudinal. Load wheels 16" x 3" on 1-1/8" common axle. Swivel casters with 8" x 2 1/2" wheels bolted to structural steel cross bolsters. Roller bearings and pressure lubrication fitting in all wheels. Channel-reinforced pipe sockets with set screws. Platform height 17 1/2". Capacity: 4000 lbs. Overall deck dimensions: 36" x 72"

PALLET	SUGGESTED QUANTITY:	100
ITEM: O-55	ESTIMATED UNIT PRICE: .	\$8
LOCATION: OPERATIONS	BUDGET TOTAL:	\$800

MANUFACTURER: Local outlet

MODEL NO.: #1

DESCRIPTION: "Quality" grade softwood pallet with
2x4 stringers, standard or better. Deck
boards 1"x6" standard or better. 6 top
3 bottom, 4 way.

BATTERY CHARGER	SUGGESTED QUANTITY:	1
ITEM: O-56	ESTIMATED UNIT PRICE:	\$595
LOCATION: OPERATIONS	BUDGET TOTAL:	\$595

MANUFACTURER: Sun Electric Corporation

MODEL NO.: 1BC-720

DESCRIPTION: Battery charger designed for 6 or 12 volt battery. Two automatic fast charge positions, a slow charge position, a boost start (160 amps. max) and a low battery and test charge setting. Power on light and test light indicate proper polarity, state or charge and serves as 3 minute timer. Voltage is regulated at a constant current level. Charge time at each current level (40,20, and 10 amp) is determined by battery state or charge and internal resistance. Equiped with, 8" heavy rubber wheels, handle and lead hanger. Overall dimensions 16"W x 18"D x26"H.

2½ YARD TRASH CARTS	SUGGESTED QUANTITY:	12
ITEM: O-57	ESTIMATED UNIT PRICE:.	\$795
LOCATION: OPERATIONS	BUDGET TOTAL:	\$9,540

MANUFACTURER: Rubbermaid Commercial Products, Inc.

MODEL NO.: 1074-43

DESCRIPTION: 2½ yard, self-dumping hoppers with one-piece body constructed of polyethylene. Suitable for steam cleaning. Equipped with dumping frame with wheels and casters with a 30° tilt capacity. Overall dimensions: 84"L x 55"W x 49-3/4"H.

JANITOR CARTS

SUGGESTED QUANTITY: 4

ITEM: O-58

ESTIMATED UNIT PRICE: \$575

LOCATION: OPERATIONS

BUDGET TOTAL: \$1,100

MANUFACTURER: Geerpres

MODEL NO.: Wagon Master 640

DESCRIPTION: Housekeeping carts of all steel construction, electroplated, corrosion resistant. Equipped with two open fabricated shelves using removable tray liners. Carts are mounted on a solid sheet-metal pan base equipped with 4" ball-bearing wheels and casters. Cart handle serves to hold washable, nylon-reinforced vinyl bag which has a capacity of four bushels. Cart base has a rubber bumper around it's perimeter.

JANITOR HOSE	SUGGESTED QUANTITY:	12
ITEM: O-59	ESTIMATED UNIT PRICE:	\$20
LOCATION: OPERATIONS	BUDGET TOTAL:	\$240

MANUFACTURER: Swan

MODEL NO.: 37592 - 6'

DESCRIPTION: Heavy duty high pressure heat and chemical resistant hose with standard 3/4" hose fitting and heavy duty nozzle attached. 6' long.

AUTOMATIC FLOOR SCRUBBER	SUGGESTED QUANTITY:	3
ITEM: O-60	ESTIMATED UNIT PRICE:	\$6,100
LOCATION: OPERATIONS	BUDGET TOTAL:	\$18,300

MANUFACTURER: The Advance Machine Co.

MODEL NO.: A38BD

DESCRIPTION: Automatic floor scrubber is battery operated and cleans 38" wide path. Variable speed forward and reverse 0 to 185 feet per minute. Brushes powered by 1.6 HP, 36 volt DC motor. Vacuums powered by two 3/4 HP, 36 volt DC motors. 24 gallon recovery tanks. Fully variable solution control. 42" wide squeegee. Two 20" brushes. Self-propelled plus transport drive. Brush pressure variable from 200 to 250 lbs. Six 6-volt 220 amp-hour batteries. Dimensions: 53-3/4"L x 40"W x 43-3/4"H. Includes two 20" bassine scrub brushes and wet pick up attachment complete. Transportation drive included as standard equipment.

ACCESSORIES:

400756 - Nylo-grit scrub brushes.
Heavy duty application.
Quantity required: 1 set per unit

375515 - Dry pick-up kit complete.
Includes vacuum filter bag, bristle attachment,
and union mix polish brushes.
Quantity required: 1 per unit.

400718 - Short-trim scrub brush with pad
holder.
Quantity required: 1 set per unit.

ROTARY FLOOR MACHINE	SUGGESTED QUANTITY:	2
ITEM: O-61	ESTIMATED UNIT PRICE:	\$1,000
LOCATION: OPERATIONS	BUDGET TOTAL:	\$2,000

MANUFACTURER: The Advance Machine Company

MODEL NO.: Matador 20 Hi-Speed M-20-HS

DESCRIPTION: Rotary floor machine is 20" diameter model that turns at 285 RPM. Equipped with safety interlock. Handle adjustable. Heavy duty 5" fixed transport wheels. 1½ HP rectified DC permanent magnet low amp draw motor with 50' cord and plug, 110V, 60 Hz. Power-flex grease free drive transmission.

RIDE -ON SCRUBBER

SUGGESTED QUANTITY: 1

ITEM: O-62

ESTIMATED UNIT PRICE: \$11,000

LOCATION: OPERATIONS

BUDGET TOTAL: \$11,000

MANUFACTURER: Star Industries, Inc.

MODEL NO.: Hydrodyne 46

DESCRIPTION: 36 volt, 660 ampere battery supplying single continuous duty D.C. electric motor drive to hydraulic pump. Three 17" scrub brushes flat to floor. Tanks: 53 gal. solution, 63 gal. recovery. Vacuum turbine: twin to stage 45° water lift. Squeegee: Full floating dual rear. Side squeegee manual control independent.

OUTDOOR VACUUM

SUGGESTED QUANTITY: 1

ITEM: O-63

ESTIMATED UNIT PRICE: \$17,500

LOCATION: OPERATIONS

BUDGET TOTAL: \$17,500

MANUFACTURER: Advance Machine Company

MODEL NO.: Retriever 5600

DESCRIPTION: Outdoor sweeper/vacuum. Motor 2 cylinder 4 cycle overhead valve liquid cooled diesel engine. Hydraulic drive for 0-10 MPH. 15 cubic foot hooper hydraulically lifts to 60". Filter area is an enclosed multiple tubular cartridge with shaker motor cleaning action. 10" fan provides dust control for broom compartment. Main broom is tubular one piece disposable with automatic warp adjust, constant speed hydraulic drive. Side broom is rotary disposable 24" diameter hydraulically driven and may be raised and lowered from operator position.

Standard equipment lights, horn, hour meter, brake, main and side broom, flashing amber light fuel gauge, ammeter, water temp. gauge, oil pressure gauge, and overhead guard.

VACUUM SWEEPERS

SUGGESTED QUANTITY: 2 EA.

ITEM: O-64

ESTIMATED UNIT PRICE: -N/A

LOCATION: OPERATIONS

BUDGET TOTAL: \$2,900

MODEL NO.: See Below

DESCRIPTION: Might Maid 120
Multi-purpose commercial vacuum with one motor to power rotating brush and a second motor to drive the vacuum. 12" wide power brush tool for baseboards. Vacuum power head is 3/8 HP, brush drive tool motor is 1/8 HP. Complete with power head, brush drive carpet cleaning attachment, cloth filter bag, six paper collector/filter bags. Two-piece long handle, and short handle. 115V, 60Hz with cord and plug.
Quantity required: 2

ACCESSORIES: Accessory Kit which includes hose, crevice tool, dusting tool, upholstery tool, bristle tool for hard floors, and shoulder strap.
Quantity required: 1 per unit.

Carpetwin 16
Vacuum sweeper with 16" cleaning width and fully adjustable turbulator brush. Equipped with standard collector bag. 1 HP, 115V, 60 Hz vacuum motor and .125 HP brush motor. Equipped with 15 amp switch, and nonmarking wheels. 40 feet of 16-3 cable.
Overall dimensions: 46 1/2" H x 18 1/2" W x 17" L.
Quantity required: 2

Carpetwin 20
Vacuum sweeper with 20" cleaning width and fully adjustable turbulator brush. Equipped with standard collector bag. 1 HP, 115V, 60 Hz vacuum motor and .25HP brush motor. Equipped with 15 amp switch, and nonmarking wheels. 40 feet of 16-3 cable.
Overall dimensions: 48" H x 22 1/2" W x 18 1/2" L.
Quantity required: 2

ACCESSORIES:

325356 Hose adaptor 2" to 1½"
321855 8 ft. plastic hose 1½" to 1½"
321974 12" rug tool 1½"
321885 4 ft. two bend floor wand
322202 3 ft. overhead wand
322059 3" round dusting tool
322040 5" upholstery tool
Quantity required: 1 per unit

CARPET SHAMPOOERS	SUGGESTED QUANTITY:	2
ITEM: O-65	ESTIMATED UNIT PRICE:-	N/A
LOCATION: OPERATIONS	BUDGET TOTAL:	\$2,650

MANUFACTURER: The Advance Machine Company

MODEL NO.: See below

DESCRIPTION: Carpetron 14
Dry foam type carpet shampoo machine with cleaning width of 14". 1/3 HP capacitor motor to drive brush. Forward self-propelling. Equipped with foam control switch and 3½ gallon capacity solution tank with gauge that indicates quantity of solution remaining. Adjustable front rollers. Equipped with 5" diameter rear wheels.

Carpetron 18/244 902
Dry foam type carpet shampoo machine with cleaning width of 18. 1/3 HP motor to drive brush. Self-propelling forward and reverse. 3½ gallon capacity solution tank with gauge to indicate solution remaining. Foam control switch. Adjustable front rollers. 5" diameter rear wheels

PRESSURE STEAM CLEANER	SUGGESTED QUANTITY: 1
ITEM: O-66	ESTIMATED UNIT PRICE: -\$2,360
LOCATION: OPERATIONS	BUDGET TOTAL: \$2,360

MANUFACTURER: Homestead Industries/Jenny Division

MODEL NO.: 760-C-OEP

DESCRIPTION: Portable steam cleaner/high pressure washer is oil fired. Includes 25' vapor hose, angle-grip swivel cleaning gun with round and 2" flat nozzles and pressure wash tip. Unit is mounted on 8" wheels with rubber tires, and is equipped with pump safety guard and stack cover. Used as a steam cleaner unit has an output of 100 gallons per hour; used as a high-pressure washer has 200 gph at 400 psi. Uses 4 gallons per minute of water at free flow. Maximum inlet pressure 60 psi. Fuel tank capacity of 12 gallons. Forced-air, pressure-atomizing burner combustion system. Jet size 3gph. Heating coil is four-section spiral-wound pipe. Automatic continuous electrical spark ignition system. Solution tank capacity of 12 gallons. Outlet pressure gauge, motor switch, and fuel metering valve are panel-mounted. Overall dimensions: 49"L x 22"W x 41"H. Motor is 1½HP, 120-volt, 60Hz, 1Ø.

ELECTRIC TRUCK	SUGGESTED QUANTITY: 3
ITEM: O-67	ESTIMATED UNIT PRICE: \$4,175
LOCATION: OPERATIONS	BUDGET TOTAL: \$12,515

MANUFACTURER: Cushman
MODEL NO.: 317 Titan

DESCRIPTION: Electric 4-passenger cart. 16 gauge diamond plate steel rear and front panel, and 12 gauge steel side body panels. On coil spring and shock absorber suspension with hydraulic braking system and triple V-belt drive. Power supplied by a 36-volt DC series motor rated at 8 HP at 1400 RPM. The system utilizes eight 6-volt batteries using sliding contact tapping unit, with an automatic line compensating charger. Overall dimensions: 124½"L x 49"W x 26½"H at the bed. Standard equipment includes brake/tail light and horn.

ACCESSORIES: Trailer hitch, headlight, hourmeter, and front bumper

MOP BUCKET & WRINGER

SUGGESTED QUANTITY: 24

ITEM: O-68

ESTIMATED UNIT PRICE: \$140

LOCATION: OPERATIONS

BUDGET TOTAL: \$3,360

MANUFACTURER: Geerpres

MODEL NO.: No. 15 Wringer
No. 26 Bucket

DESCRIPTION: Downward pressure wringer. All steel construction handle and shafts. Pressure fit return spring above water, double staggered metal gears provide wringer pressure.

Galvanized bucket with 1/8" steel reinforced band, welding 1 1/2" closed bail ears, and horizontal strengthening ribs on 4 ball-bearing casters. Supplied with continuous rubber bumper around bucket/wheel chassis.

WET MOP	SUGGESTED QUANTITY:	24
ITEM: O-69	ESTIMATED UNIT PRICE:	\$25
LOCATION: OPERATIONS	BUDGET TOTAL:	\$600

MANUFACTURER: Golden Star Polish Mfg. Co., Inc.

MODEL NO.: AWS-3200/HWM-118 SG

DESCRIPTION: Wet mop constructed of tufted synthetic primary backing, launderable, non-shrinking 33 oz. yarn, with heavy duty natural lacquered wooden quick-lock handle.

DUST MOP	SUGGESTED QUANTITY:	24
ITEM: O-70	ESTIMATED UNIT PRICE:	\$45
LOCATION: OPERATIONS	BUDGET TOTAL:	\$540

MANUFACTURER: Golden Star Polish Mfg. Co., Inc.

MODEL NO.: APM-572/HTR-10/BLK-572

DESCRIPTION: Dust mop of 10-ply, grade A yarn measuring 5" at outer row, 3" at center row trim. 72" head with hardwood handle and metal bracing frame.

BROOMS	SUGGESTED QUANTITY:	24
ITEM: O-71	ESTIMATED UNIT PRICE:	\$25
LOCATION: OPERATIONS	BUDGET TOTAL:	\$600

MANUFACTURER: Milwaukee Dustless Brush Co.

MODEL NO.: 31-36 / 30-36

DESCRIPTION: Polypropylene-filled push broom with 4" trim 36" wide brush. Steel back over hardwood block, with reversible hardwood handle.

CAUTION SIGN (WET FLOOR)	SUGGESTED QUANTITY:	24
ITEM: O-72	ESTIMATED UNIT PRICE:	\$15
LOCATION: OPERATIONS	BUDGET TOTAL:	\$288

MANUFACTURER: Rubbermaid Commercial Products Inc.

MODEL NO.: 6109-77

DESCRIPTION: Floor signs hot stamped "Wet Floor" lettering on high density polypropylene black text & graphic on yellow back ground custom imprint message available.

DUST PANS	SUGGESTED QUANTITY:	18
ITEM: O-73	ESTIMATED UNIT PRICE:	\$5/\$20
LOCATION: OPERATIONS	BUDGET TOTAL:	\$180

MANUFACTURER: Rubbermaid Commercial Products, Inc.

MODEL NO.: 2006/2007

DESCRIPTION: Injection molded dust pan with smooth lip for positive floor contact, Overall dimensions: 8½" x 14½" x 12½".
Quantity required: 12

Lobby Dust Pan has injection-molded base with snap lock upright aluminum handle. Overall dimensions: 5-3/4" x 12" x 36-5/8".
Quantity required: 6

HOSES 50'x 3/4"	SUGGESTED QUANTITY:	6
ITEM: O-74	ESTIMATED UNIT PRICE:	\$50
LOCATION: OPERATIONS	BUDGET TOTAL:	\$300

MANUFACTURER: Swan

MODEL NO.: 20166

DESCRIPTION: Heavy duty rubber hot water hose. All rubber, 10-sided cover for abrasion resistance constructed to withstand hot water up to 160°. Reinforced truck tire fiber. Heavy duty solid brass coupling with octagon female for wrench grip and internally expanded crimp.

GLASS CLEANING EQUIPMENT	SUGGESTED QUANTITY:	2
ITEM: O-75	ESTIMATED UNIT PRICE: -	\$85
LOCATION: OPERATIONS	BUDGET TOTAL:	\$170

MANUFACTURER: Unger Enterprises, Inc.

MODEL NO.: O-60200

DESCRIPTION: Window & glass cleaning kit. All tools fit aluminum telescopic pole enabling window cleaning, washing, scrubbing, drying, dusting and scraping of wall floors and ceilings to heights of fourteen feet. The container is of molded polystyrene. Unit includes;

- 1) Eight foot extension pole
- 2) 14" strip-washer
- 3) 36" replacement rubber
- 4) 18", 12", & 6" squeegee channel and rubber
- 5) Brush and sponge with detachable clamp
- 6) Squeegee handle
- 7) Scraper blades and holder

EXTENSION BULB CHANGERS	SUGGESTED QUANTITY:	2
ITEM: O-76	ESTIMATED UNIT PRICE: .	\$80
LOCATION: OPERATIONS	BUDGET TOTAL:	\$160

MANUFACTURER: Unger Enterprises, Inc.

MODEL NO.: F 200020

DESCRIPTION: Telescoping extension pole. Anodized extruded aluminum tube section with nylon locking collars and rubber hand grip. Terminating nylon cone is a 3/4" acme thread to accept standard threaded accessory blocks.

ACCESSORIES: J713300 Bulb Snatcher
Exchanges bulbs to 200 watts.

J713400 Flood Sucker
Exchanges flood lights and electric bulbs 300 watts and larger.

J713500 BEBBE
Fully insulated tool to remove the base of broken electric bulbs with glass catcher.

FLASHLIGHTS	SUGGESTED QUANTITY:	12
ITEM: O-77	ESTIMATED UNIT PRICE:	\$6
LOCATION: OPERATIONS	BUDGET TOTAL:	\$72

MANUFACTURER: Bright Star Industries, Inc.

MODEL NO.: 2618 MI

DESCRIPTION: Industrial flashlight, 2 cell with PR-6 bulb and magnet high impact A.B.S. plastic case. Shatter proof lexan lense & spare bulb compartment.

EMERGENCY LANTERNS

SUGGESTED QUANTITY: 6

ITEM: O-78

ESTIMATED UNIT PRICE: \$15

LOCATION: OPERATIONS

BUDGET TOTAL: \$90

MANUFACTURER: Bright Star Industries, Inc.

MODEL NO.: 241

DESCRIPTION: Sealed beam 6-volt lantern, heavy duty high impact head, adjustable within 145°. Positive push button switch. Hanging hook in handle. Uses No. 4546 sealed beam bulb and standard heavy duty weather proof battery.

SECURITY CHAINS & PADLOCK	SUGGESTED QUANTITY:	1 LOT
ITEM: O-79	ESTIMATED UNIT PRICE:-	\$500
LOCATION: OPERATIONS	BUDGET TOTAL:	\$500

MANUFACTURER: Master Lock Company

MODEL NO.: 1593 MK

DESCRIPTION: Security Lock with chain is 5-pin tumbler padlock with 2½" wide laminated steel case. Master No. 15 locks with chrome-plated, case-hardened alloy steel chackle. Has paracentric keyway. Each lock to be supplied with 2 keys. Equipped with Master No. 93 9/32" welded alloy steel chain, case-hardened, 2 feet long, with vinyl cover.

EMPLOYEE LOCKERS	SUGGESTED QUANTITY:	25
ITEM: O-80	ESTIMATED UNIT PRICE:	-\$115
LOCATION: OPERATIONS	BUDGET TOTAL:	\$2,875

MANUFACTURER: Equito

MODEL NO.: 151578 / 151578A

DESCRIPTION: Single tierlockers with angle reinforced box frame and individual padlock hasp and lock port. Spring loaded catch. Rubber bumper door stops and recessed handlers. Overall dimensions 15'W x 15'D x 78"H

ELEVATED WORK PLATFORM	SUGGESTED QUANTITY:	2
ITEM: O-81	ESTIMATED UNIT PRICE:	\$25,000
LOCATION: OPERATIONS	BUDGET TOTAL:	\$50,000

MANUFACTURER: Reynolds Televator

MODEL NO.: 60 DMO

DESCRIPTION: Telescopic work platform with maximum platform height of 60 feet. Work platform area 40" x 80"; load capacity 500 lbs. Height in down position 9' 3-3/4" and overall length 112" x 62 1/4" wide. Structure is fabricated from aluminum fastened with cadmium-plated steel bolts and lock washers. The work platform is electrically insulated and covered with 1/4" A.S.T.M. rubber matting, and is equipped with safety handrails and toe boards of treated ash. The base frame is on 10" ball-bearing polyurethane wheels and casters, with a manuel pulling and power towing tongue. Ladder access is built into the platform. Permanently mounted spirit levels, leveling jacks and folding safety outriggers form support on all corners. The frame is enclosed with removable panels of flattened expanded aluminum 3/4" x .081. Platform is powered by 1 HP, 208-volt, 3-phase notor with 100 feet of 12/3 SO cord.

COMMUNICATION SYSTEM

SUGGESTED QUANTITY: 1

ITEM: O-82

ESTIMATED UNIT PRICE: \$25,000

LOCATION: OPERATIONS

BUDGET TOTAL: \$25,000

MANUFACTURER: Motorola, Inc.

MODEL NO.: To be selected by Building Engineer

DESCRIPTION: Communication system will be designed to adapt and conform to existing architectural conditions of the facility and conform to acquisition of any and all licensing and frequency permits as required in the Miami area.

SIGN MACHINE	SUGGESTED QUANTITY:	1
ITEM: O-83	ESTIMATED UNIT PRICE:	\$6,000
LOCATION: OPERATIONS	BUDGET TOTAL:	\$6,000

MANUFACTURER: Sign Press

MODEL NO.: M12228

DESCRIPTION: Printing machine; prints on materials in a wide variety of thicknesses slotted type pieces on a type bar positions the type on the machine bed and locks it in place with slotted magnets. Steel bed plate is permanently scribed with one inch squares and standard card stock sizes. Cam operated pressure roller lifts the roller when it is passed back across the type. Machine is equipped with type fonts, ink, brayers, cleaners, magnets, spacers, a selection of card stock and an illustrated instruction booklet. Printing capacity 22"x28", roller diameter 4". Printer includes a 30"x40" movable type and supply cart. Fonts supplied.
Century Bold 36 PT C.L.N.
Century Ex Bold Condensed, 60 PT & 72 PT C.L.N.
Helvetica 1-3/4" & 2" C.L.N.

First Aid 5

Mini-Ambulance
Medical Storage Cabinet
Examination Lamps
Blankets
Pillows
First Aid Kit & Supplies
Small First Aid Kit
Stretcher With Cabinet
Respiration Kit
Folding Wheelchair
Cots
Screens
Examination Tables
Office Furnishings

TOTAL: \$16,815

MINI-AMBULANCE	SUGGESTED QUANTITY:	1
ITEM: FA-1	ESTIMATED UNIT PRICE:	\$9850
LOCATION: FIRST AID	BUDGET TOTAL:	\$9850

MANUFACTURER: Horton Industries

MODEL NO.: M/R 10

DESCRIPTION: Mini ambulance a compact medic/rescue vehicle. The unit carries a stretcher, portable O₂ and suction, a hare traction splint, a backboard and kits for miscellaneous medical supplies, includes life support capabilities for cardioscope and defibrillator. Direct drive mechanism with 36 volt D.C. series engine develops 2.7 HP at 2600 RPM. Batteries (6) six volt with stationary mount battery charger. Body molded fiber glass construction on a steel ladder type tube frame. Overall dimensions 106" long x 46" wide x 67½" high.

MEDICAL STORAGE CABINET

SUGGESTED QUANTITY: 1

ITEM: FA-2

ESTIMATED UNIT PRICE: \$475

LOCATION: FIRST AID

BUDGET TOTAL: \$475

MANUFACTURER: Enochs Manufacturing Co.

MODEL NO.: 77

DESCRIPTION: Medical storage cabinet of all steel construction, has plastic laminate top, stainless steel top guard rails, and one wide drawer. Cabinet has double swing door storage compartment with adjustable shelves. Overall dimensions: 33-3/4"H x 25-5/8"W x 18"D.

EXAMINATION LAMP	SUGGESTED QUANTITY:	2
ITEM: FA-3	ESTIMATED UNIT PRICE:	\$210
LOCATION: FIRST AID	BUDGET TOTAL:	\$420

MANUFACTURER: Adjustable Fixture Co.

MODEL NO.: 431

DESCRIPTION: Examination lamp, independently direction adjustable light source from 2' to 7' above floor. All moving parts compression spring loaded. Heat insulated fiber glass reflector hood. Horizontal reach 25", shade Dia. 7 $\frac{1}{4}$ " x 7-5/8" high. Toggle action switch and 10' 3 wire grounding cord.

ACCESSORIES: CB2 caster base assembly

9331 wire lamp guard

BLANKETS	SUGGESTED QUANTITY:	6
ITEM: FA-4	ESTIMATED UNIT PRICE:	- \$40
LOCATION: FIRST AID	BUDGET TOTAL:	\$240

MANUFACTURER: Local supplier

MODEL NO.: N/A

DESCRIPTION: Thermal blanket with bound cotton sateen ends. Made of static-free, high-strength pre-shrunk cotton. 66" x 96"

PILLOWS	SUGGESTED QUANTITY:	2
ITEM: FA-5	ESTIMATED UNIT PRICE:	\$30
LOCATION: FIRST AID	BUDGET TOTAL:	\$60

MANUFACTURER: Local medical supplier

MODEL NO.: N/A

DESCRIPTION: Standard size pillow, medium firmness, foam filled. To be supplied with cotton cover and cotton pillow case.

FIRST AID KIT & SUPPLIES

SUGGESTED QUANTITY: 2

ITEM: FA-6

ESTIMATED UNIT PRICE: \$115

LOCATION: FIRST AID

BUDGET TOTAL: \$230

MANUFACTURER: Johnson & Johnson

MODEL NO.: 8150

DESCRIPTION: First aid kit designed to supply first aid treatment for up to 50 people. Kit box is constructed of 24 gauge steel and contains an assortment of first aid supplies. Kit is equipped with a carrying handle and wall brackets for indoor or outdoor use and is weatherproof, dustproof, and rust resistant. Box has adjustable shelves and one unfilled compartment for use as needed. Overall dimensions: 15-3/4" x 14 1/2" x 5-9/16".

FIRST AID KIT-SMALL	SUGGESTED QUANTITY:	6
ITEM: FA-7	ESTIMATED UNIT PRICE: -	\$80
LOCATION: FIRST AID	BUDGET TOTAL:	\$480

MANUFACTURER: Johnson & Johnson

MODEL NO.: 8125

DESCRIPTION: First aid kit designed to supply first aid treatment for 25 people. Kit box is constructed of 24 gauge steel and contains an assortment of first aid supplies. Kit is equipped with a carrying handle and wall brackets for indoor or outdoor use. Box has adjustable shelves and one unfilled compartment for use as needed. Overall dimensions: 15" x 10-3/4" x 4-7/8".

STRETCHER WITH CABINET	SUGGESTED QUANTITY:	2
ITEM: FA-8	ESTIMATED UNIT PRICE:	\$325
LOCATION: FIRST AID	BUDGET TOTAL:	\$650

MANUFACTURER: Ferno Washington, Inc.

MODEL NO.: 104S

DESCRIPTION: Stretcher of aluminum construction, of telescoping type with fold-over backrest with positive lock forming a 72" stretcher with 4" wheels that fold up and snap into position. Supplied with quick-release safety straps. Length: 72" open 50" folded; Width: 20½"; Height: 8" open, 5" folded.

ACCESSORIES: No. 567 anodized aluminum wall cabinet with magnetic door catch. Overall dimensions: 53½"L x 25-3/4"W x 5-3/4"D.

RESPIRATION KIT	SUGGESTED QUANTITY:	1
ITEM: FA-9	ESTIMATED UNIT PRICE:-	\$160
LOCATION: FIRST AID	BUDGET TOTAL:	\$160

MANUFACTURER: Hudson Oxygen Therapy Sales Co.

MODEL NO.: 5000

DESCRIPTION: Portable oxygen unit provided in plastic molded case which accommodates one standard D size oxygen cylinder with No. 2070 oxygen regulator which has both contents and liter flow gauges. Unit is equipped with yoke-type oxygen regulator with steel diaphragm. and the following standard equipment:

No. 1003 plastic mask, No. 1175 mouth-to-mouth rescue breathing tube, and No. 5080 cylinder wrench.

FOLDING WHEEL CHAIR	SUGGESTED QUANTITY:	2
ITEM: FA-10	ESTIMATED UNIT PRICE:	\$1,000
LOCATION: FIRST AID	BUDGET TOTAL:	\$2,000

MANUFACTURER: Everest & Jennings

MODEL NO.: P8AU200-47-774

DESCRIPTION: Reclining back wheel chair with cam action swinging detachable front rigging and heel loop on footrests. Chrome plated steel frame and handrims. Wheels are 24" steel rim 36 spoke and 8"x1 free rolling casters with double ball bearing. Toggle-type safety wheel locks and protective hub caps. Arm rests are adjustable at 1" increments to a 5" capacity and are detachable, leg rests adjust individually for length and elevation. Full-reclining back, reclines 90° from vertical to horizontal in one-inch increments.

COTS	SUGGESTED QUANTITY:	2
ITEM: FA-11	ESTIMATED UNIT PRICE:	\$300
LOCATION: FIRST AID	BUDGET TOTAL:	\$600

MANUFACTURER: Sico Incorporated

MODEL NO.: Mobil Sleeper 1374-3974

DESCRIPTION: Mobil sleeper rests on four 3" swivel casters and is designed to store in a vertical position. Unit is furnished with $\frac{1}{2}$ inch finished headboard with vinyl bumper molding. Structural frame is welded tubular steel of one-piece construction. Mattress is conventional twin size (39" x 74" x 7") with 4" vinyl wrapped roundation inner spring. Cot is supplied with Velcro strap to hold pillow and mattress in place while in storage position.

PRIVACY SCREENS	SUGGESTED QUANTITY:	2
ITEM: FA-12	ESTIMATED UNIT PRICE:	\$350
LOCATION: FIRST AID	BUDGET TOTAL:	\$700

MANUFACTURER: Graber

MODEL NO.: 9-897-0 Preformed cubical tracts
Number Required: 2

90842-1 Slide with hook
Number Required: 96

9-328-0 End cap
Number Required: 2

9-822-0 End stop with gate
Number Required: 2

Saran verel curtain with mesh
24' wide x 93" high
Number Required: 2 sets

DESCRIPTION: Preformed cubicle track is a continuous piece of track formed to a right angle with a 12" radius curve. Each leg is 8' long. Sections are arranged for a standard two-bed cubicle system. Preformed track is installed flush to ceiling. Fasteners are inserted through slotted holes punched in track on 16 inch centers complete with necessary slides and end caps.

Curtains synthetic woven fabric inherently flame proof, shrinkage controlled to less than 3%, color fast, static free and mildew proof.

SPECIAL NOTES: Color to be approved by Architect.

EXAMINATION TABLES**SUGGESTED QUANTITY: 2****ITEM: FA-13****ESTIMATED UNIT PRICE: \$475****LOCATION: FIRST AID****BUDGET TOTAL: \$950**

MANUFACTURER: Enochs Manufacturing Co.**MODEL NO.: 21-Concept 2**

DESCRIPTION: Examination table of all steel construction with polyurethane padded. Top locks at any angle. Table has open shelf storage and adjustable glides, and equipped with removable leg extension. Unit has one back lock release lever. Overall dimensions: 27"W x 30½"H x 70"L when extended.

Exhibit Hall 6

Folding Chairs

Chair Dollies

Trash Receptacles

Telescopic Seating Risers

TOTAL: \$1,107,000

FOLDING CHAIRS	SUGGESTED QUANTITY:	5,000
ITEM: EH-1	ESTIMATED UNIT PRICE:	\$65
LOCATION: EXHIBIT	BUDGET TOTAL:	\$325,000

MANUFACTURER: Krueger

MODEL NO.: 731 or Approved Equal

DESCRIPTION: Chairs of heavy-duty commercial grade with 18 gauge reinforced tubular steel seat frame, that folds independently of chair frame to rotate through the seat hinge point from the open position to the upright parallel to the main front leg frame. The legs are reinforced with a 3/4" 20 gauge tubular steel insert and horizontally cross braced and 360 degree welded. Bases of steel legs are capped with protective swaged steel and covered by non-marring rubber shoes. All steel parts shall be finished with corrosion resistant duplex nickel chrome plating. Seat cushion is 2 1/2" neoprene foam and seat back 3/4" foam over contoured plywood. All related materials will conform to local fire retardant codes. Chair will have a positive, interlocking latching device at 19" centers.

Special notes: Color and fabric to be selected by architect.

QUANTITY NOTES: Quantity bases on 3,000 seats, per seating plan layout on demountable and telescopic platforms and 2,000 on the floor.

CHAIR TRUCKS	SUGGESTED QUANTITY:	100
ITEM: EH-2	ESTIMATED UNIT PRICE:	\$250
LOCATION: EXHIBIT HALL	BUDGET TOTAL:	\$25,000

MANUFACTURER: Krueger

MODEL NO.: 202X

DESCRIPTION: Truck pallets for storing and transporting folding chairs are of welded steel channel and tube construction mounted on extra heavy duty 5" roller bearing casters, 2 fixed, 2 swivel. All steel finished in heavy duty enamel. The trucks are of double width design to allow upright storage of chairs two abreast and allow vertical nesting of one truck upon another, using fork lift trucks. Overall dimensions 120"(L) x 40"(W) x 52"(H). Capacity 50 chairs.

Special notes: Base plates (starter blocks) must be ordered for every three. Trucks, used to hold casters off the floor for stacking and to support chair truck pallets in stored position. Base plates are to be set on floor to provide rigid support through short upstanding legs to the feet of the chair truck rack.

QUANTITY NOTES: Quantity based on 50 chairs stacking per truck to accommodate 5000 folding chairs. Total number of trucks is 100.

TRASH RECEPICALS	SUGGESTED QUANTITY:	100
ITEM: EH-3	ESTIMATED UNIT PRICE:	\$70
LOCATION: EXHIBIT HALL	BUDGET TOTAL:	\$7,000

MANUFACTURER: Rubbermaid Commercial Products Inc.

MODEL NO.: 2664/3959

DESCRIPTION: 3959 trash receptical; square base molded plastic polymer with return reinforce top rim. Beige color, 50 gal. capacity overall dimensions 19-3/4"sq. x 32-5/8"(H)

2664 large square top for 3959 base. One piece 7 gram swing action lid. Color beige.

SPECIAL NOTES: Base are to be hot stamped with facility graphics camera ready art work provided by center.

TELESCOPIC SEATING RISERS	SUGGESTED QUANTITY:	1 LOT
ITEM: EH-4	ESTEMATED UNIT PRICE:	\$750,000
LOCATION: EXHIBIT HALL	TOTAL BUDGET:	\$750,000

MANUFACTURER: Hussey Seating Systems

MODEL NO.: N/A

DESCRIPTION: Estimated seating capacity on demountable and telescopic platforms is approximately 3,000 seats, per seating plan layout selected as most applicable to Exhibit Hall.

Catalog Cuts **7**

THE SUPER-KOMPAK PASSIMETER®

(REGISTERING CONTROLLED TURNSTILE)

Model HD

PROVEN DEPENDABLE

The Finest — Made in several models for different methods of operation — each the fastest of its type.

Combining These Special Registering Control and Traffic Speed-Up Features

CHECK THIS LIST

- ☐ **Attractive Appearance:** Mechanism housing and pedestal combined in a trim, streamlined cabinet of heavy steel finished in long wear enamel, with protective bands of stainless steel, topped by a satin finish stainless steel cover. The arms are round stainless steel tubing which retains a fine appearance and smooth, satiny finish under severe weather conditions.
- ☐ **Heavy Duty Construction:** Ruggedly built — strong, husky parts with big factors of safety — stands up in continuous service under the heaviest traffic conditions — heavy back lock.
- ☐ **Noiseless Operation:** Most advanced soundproofing design principles are used — hydraulic silencers, noise insulation, elimination of noise producing motions and loose-fitting parts.
- ☐ **Tamperproof, Easy-to-read, Accurate Register:** Specially designed register built into the mechanism housing and actuated by the hub shaft which revolves as the arms are turned — protected by a housing against manipulation or turnback of register — white figures on black background for easy reading — registers up to 99,999 and then returns to zero automatically to start over.
- ☐ **Highest Speed:** Every known device to effect high operating speed is incorporated. Its many automatic features make it faster than the cashier or ticket taker, capable of passing 45 or more persons per minute.
- ☐ **Hydraulic Shock Absorber:** Prevents the arms from spin-

ning and acts as a cushion to ease the arms "home" gently no matter how hard they are pushed.

☐ **No Doubling Up:** Only one person per registration insured by special arm arrangement — space between arms carefully calculated to give ample room for one person but too little for two persons at a time.

☐ **Space-Saving Feature:** There are three arms set into the hub. They revolve at such an angle that, when the Passimeter is in locked position, one arm always extends horizontally across the entrance passageway while the other two swing downward, out of the way.

☐ **Self Positioning Arms For Speed and Safety:** Arms are automatically moved into the "home" position after each person passes through. A positive arm centering device brings the following arm into correct barrier position.

☐ **Safety Features:** All users are safeguarded even if careless or clumsy. Surfaces are smooth finished, corners rounded, all mechanism enclosed. Arms never stop in awkward "half-cocked" positions — always come "home" for next passage. Design is smooth with nothing protruding into the passageway.

☐ **Easy, Low Cost Installation:** Requires only three anchor bolts through the base.

☐ **Low Operating or Maintenance Cost:** Few moving parts — all parts accessible — no special skill needed to maintain.

 PEREY TURNSTILES • 535 FIFTH AVENUE, NEW YORK, N.Y. 10017

SUPER KOMPAK PASSIMETER

Two basic types for two different methods of operation

Finest space-saving registering turnstile

NORMALLY UNLOCKED TYPE

The Normally Unlocked Type Super Kompak Passimeter is recommended as the most suitable for most pay entrances. Tests have shown it will handle large crowds faster than other types.

The Normally Unlocked Type differs from other types in that as its name implies, it is normally unlocked, ready for the patron to pass through. This arrangement, combined with other automatic features of the Passimeter, enables the ticket taker to devote his entire attention to serving patrons, to inspect and take tickets, to Pass Patrons faster.

The patron operates this turnstile when passing through, yet the attendant, by pressing the emergency locking control, can, if necessary, prevent the passage. The arms are automatically brought into "home" position smoothly and quickly, after each person has passed, by the spring throw and traffic adapting mechanism, eliminating such faults as arms' "over-running" (causing faulty registration errors) and arms' stopping "in mid travel". The Normally Unlocked Type has become the favored choice in most turnstile applications.

Out of Service Lock—A lock and fittings are supplied by which the normally unlocked type may be locked to prevent the arms from being turned when it is desired to keep it out of service.



PORTABLE MODEL SUPER KOMPAK PASSIMETER WITH RAILING ADDED



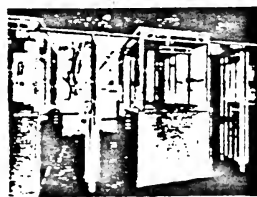
The Super Kompak Passimeter Portable Model is a complete unit combining turnstile and guide railing mounted on a non-

NORMALLY LOCKED TYPE (Attendant Unlocks)

The Normally Locked Type Super Kompak Passimeter must be unlocked by the attendant to permit passage. To make this model the fastest of its type, it has been designed with many features, to permit attendants to devote their maximum attention to checking admissions.

The unlocking mechanism is equipped with an automatic latch to keep the Passimeter open, when the attendant has once opened it, until the patron passes, when it relocks automatically. This relieves the attendant from holding the release open until the patron has passed. The operating cycle is automatic. The arms are brought into "home" position smoothly and quickly, after each person has passed, by the spring throw and traffic adapting mechanism, eliminating such faults as arms' "over-running" and arms' stopping "in mid travel". This model is "faster than the cashier." On actual tests as many as forty-five people per minute have been passed.

The Normally Locked Type is especially suited for use at entrances where the cashier or operator has other duties which might take him away from his post, or at exits where it is necessary or desirable to stop each person for examination or inspection.



skid floor plate. It can be readily moved from place to place and is ready for immediate use wherever desired. It is especially suited for temporary or special entrance use and where it is necessary to clear entrance space for exit.

The Super Kompak Passimeter with Railing Added (portable) insures that each person passes through easily and is accurately counted. The Super Kompak Passimeter, portable, eliminates the too common practice of providing a railing of improper height and locating it incorrectly relative to the arm of the turnstile.

OPTIONAL FEATURES

Two-Way Operation: Permits the turnstile, without change or adjustment, to pass patrons for either entrance or exit through the same passageway. It registers on entrance but is non-registering on exit.

Reversible Operation: Turnstile rotates in only one direction at a time but by means of a selector knob, the direction of rotation can be reversed. For example, when the crowd is entering, the turnstile can be used as a registering entrance Passimeter and when the crowd is leaving the same turnstile can be changed instantly for use as a non-registering exit Traffic Controller. A selector knob changes it from one direction of rotation to the other as desired.

Electric Control: Turnstile unlocks electrically—especially suited for remote control—turnstile relocks automatically after each passage.

Locked Register Cover: Cover over register normally closed. Can be opened for inspection only by authorized person with proper key.

SPECIFICATIONS

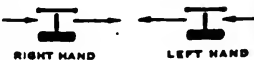
Length of arm	14 ins.
Height to top of arm	34 ins.
Height over all	38 ins.
Length over all	27 1/2 ins.
Width over all	21 1/4 ins.
Net weight, approximate	140 lbs.
Gross weight, crated, approximate	180 lbs.

PORTABLE MODEL

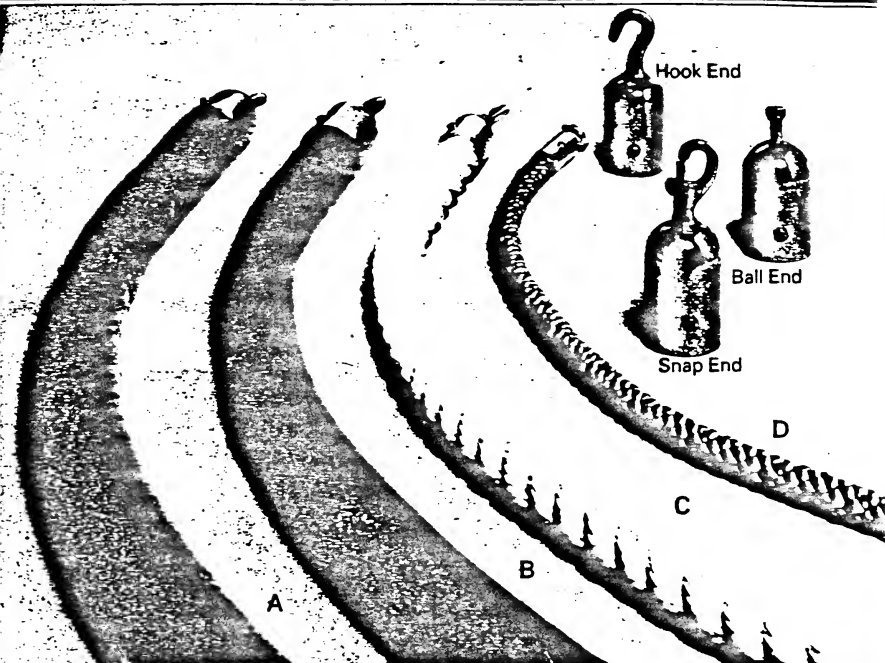
Length of arm	14 ins.
Height to top of arm	34 ins.
Height over all	38 9/16 ins.
Length over all	27 1/2 ins.
Width over all	24 3/4 ins.
Net weight, approximate	225 lbs.
Gross weight, crated, approximate	275 lbs.

Finish—Top stainless steel. Arms and trim: stainless steel. Mechanism Housing and Cabinet lustrous, long wear enamel in colors that harmonize with most surroundings. Standard Finish—amphibian green, other colors available to order.

Choice of Rotation—Specify direction desired when ordering.



PEREY TURNSTILES • 535 FIFTH AVENUE, NEW YORK, N.Y. 10017



A. VELOUR COVERED ROPE

Plush velvet, stain resistant, over firm cotton core. Choice of: maroon, bright red, gold, royal blue, rust, hunter green, grey, brown, purple, orange, black.

B. NAUGAHYDE COVERED ROPE

Rich, leather-like vinyl over firm cotton core. Cleans with damp cloth. Choice of: red, blue, beige, green, gold, brown, saddle tan, orange, azure, white, black.

C. TWISTED PLASTIC ROPE

Rugged strands of plastic, ideal for outdoors. Clear bright colors in choice of: red, blue, yellow, gold, white, black.

D. BRAIDED RAYON ROPE

Silk-like texture, particularly suited for church pews. Choice of: maroon, green, blue, gold, white, black.

Rope ends are permanently attached to ropes at no extra cost.

* Chain core rope not recommended for Portable Posts

For color card see page 39.

ROPES

ACCOMPANYING ROPE ENDS

	HOOK	SNAP	BALL
541 Standard 1-1/2" diameter.	540	550	5400
441 Light duty 1" diameter.	440	450	4400
* 741 Heavy duty chain core, 1-1/2" dia.	740	750	7400
542 Standard 1-1/2" diameter.	540	550	5400
442 Light duty 1" diameter.	440	450	4400
* 742 Heavy duty chain core, 1-1/2" dia.	740	750	7400
543 Heavy duty 1-1/2" dia. (Red Only)	540	550	5400
443 Standard 1" diameter	440	450	4400
243 Light duty 3/4" diameter.	240	—	2400
241 Light duty, 3/4" diameter.	240	—	2400

Specify metal and finish: polished chrome, satin chrome, polished brass, satin brass, English Antique, Statuary Bronze. Use satin chrome to match clear anodized aluminum. Satin brass for gold anodized, statuary bronze for bronze anodized.

**509 WALL PLATE**

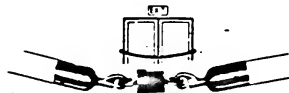
Base 1-5/8" x 1-1/4"
Extends 7/8" from wall.
Accepts one rope end
only.

**511 WALL PLATE**

Base 1-1/2" x 2" Extends
1-1/2" from wall.
Accepts two rope ends.

**513 KEYHOLE
WALL PLATE**

For use with ball type
rope and chain ends.
1-1/4" wide x 2-3/8"
high x 3/4" deep.



1001 Center Magnetic Breakaway
for use with 1" Rope

1002 Center Magnetic Breakaway
for use with Chain

For emergency use only. Order
as one length with Breakaway in
center. See diagrams below. Maxi-
mum overall span—6 feet.

**509-C
POST LOOP**

Same as No. 509
except with curved
back to fit 2" tube.

**512 EYE-BOLT**

Extends 1-5/8" from wall.
6" threaded rod fastens
through wall.

**515 WALL BRACKET**

For support of 1-1/2"
diameter rope along wall.
Extends 3-1/2" from wall.

Chain and Chain Snaps

10 links per foot, 5/32" wire.

SOLID BRASS CHAIN

961 Butted links

961-X Welded links

CHROME PLATED STEEL CHAIN

962 Butted links (ideal for indoor use)

CHROME PLATED BRASS CHAIN

967 Butted links

ENGLISH ANTIQUE BRASS CHAIN

968 Butted links

STATUARY BRONZE CHAIN

969 Butted links



13 links per foot, 3/16" wire.

ALUMINUM CHAIN

963 Butted links

963-X Welded links

STAINLESS STEEL CHAIN

964 Butted links

(ideal for outdoor or heavy duty use.)

964-X Welded links



24 links per foot.

**LIGHT DUTY NICKEL PLATED
STEEL CHAIN**

965 Butted links

965-X Welded links

Tape and Tape Snaps

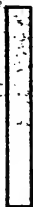
Tape supplied in minimum rolls of 50 feet. Snaps,
cadmium plated, supplied unattached.

1541 Tape 1-1/2" wide. White, maroon or black.

950 Snap for 1-1/2" tape.

2041 Tape 2" wide. White, maroon or black.

951 Snap for 2" tape.

**960 STANDARD CHAIN SNAP**

Brass, chrome plated
brass, English Antique
or Statuary Bronze finish.

**9600 BALL END**

Brass, chrome plated
brass, English Antique
or Statuary Bronze finish.

**960-C SMALL CHAIN SNAP**

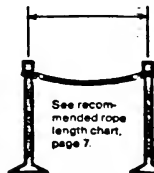
For 965 Chain only.
Chrome finish. Fits 509
and 509-C Wall Plates only.

CHECK THIS LIST WHEN ORDERING

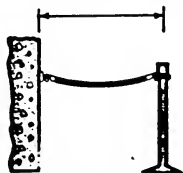
1. Order rope, rope ends and wall plates by catalog number.
2. Specify color of rope.

3. Specify metal and finish of fittings.
4. Indicate tight measurements and how measurements were taken. (see sketches below) We will allow for slack.

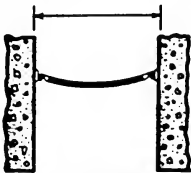
(Ropes are charged based on overall measurements with hardware attached.)



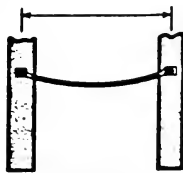
center to center of posts



wall to center of post



wall to wall

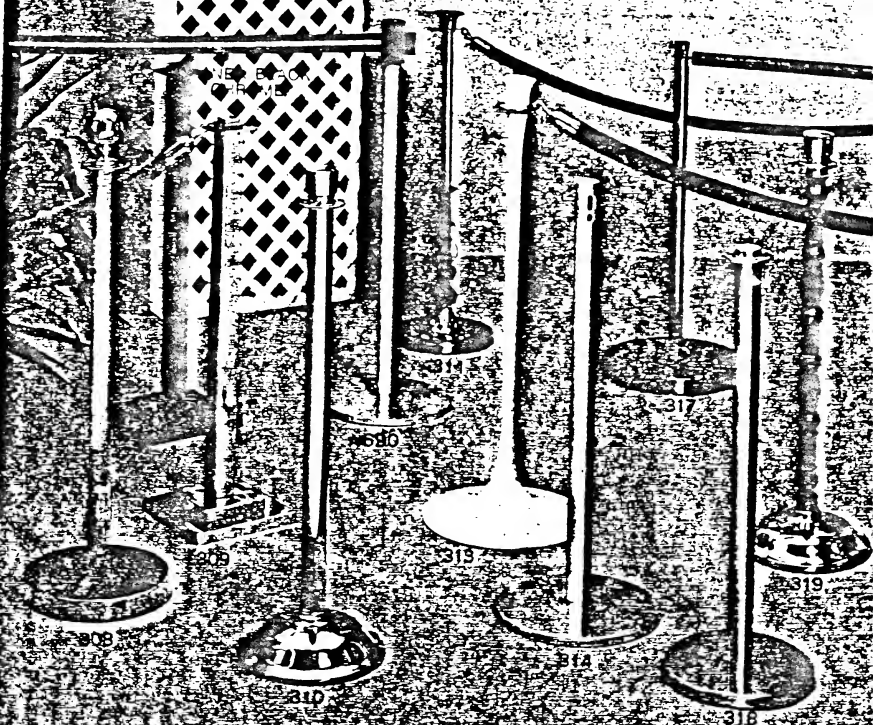


eye to eye

LAWRENCE PORTABLE POSTS

...provide a flexible railing system for traffic guidance and crowd control. Requiring no costly installation, they can easily be set up, moved or taken away to adjust to changing requirements.

These handsome posts and accompanying ropes, rods, chains, and tapes are offered in a variety of styles and finishes on the following pages.

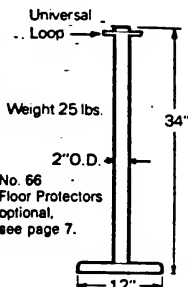


318 SERIES

CONTEMPORARY PORTABLE POST

New improved design, lighter weight and lower cost distinguish this post.

- 318-1P** Polished chrome plated steel. Indoor use.
- 318-1S** Satin chrome plated steel. Indoor use.
- 318-2P** All brass post, polished finish. Indoor use.
- 318-2S** All brass post, satin finished and lacquered. Indoor use.
- 318-3** Stainless steel, satin finish. Indoor and outdoor use.
- 318-4A** Clear anodized aluminum. Indoor and outdoor use.
- 318-4B** Bronze anodized aluminum. Indoor use.
- 318-4G** Gold anodized aluminum. Indoor use.
- 318-5** Black enameled steel post. Matching scuff-resistant Royale® base shell.
- 318-6** English Antique Brass finish. Indoor use.
- 318-8** Statuary Bronze finish on brass. Indoor use.



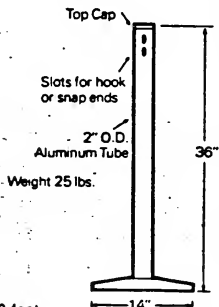
Recommended maximum post spacing - 7 feet

314 SERIES

MODERN PORTABLE POST

A broad based, low profile post designed to offer maximum stability. Clean lines maintained by using slots for rope securement.

- 314-A** Clear anodized aluminum.
- 314-B** Bronze anodized aluminum.



No. 66 Floor Protectors optional, see page 7.

Recommended maximum post spacing - 8 feet

317 SERIES

DELUXE PORTABLE POST

The ultimate in design and materials, this post has found acceptance by leading cultural and civic centers.

With 12" diameter base.

- 317-12-1P** Polished chrome finish.
- 317-12-1S** Satin chrome finish.
- 317-12-2P** All brass post. Polished finish.
- 317-12-2S** All brass post. Satin finish. Lacquered.
- 317-12-6** English Antique finish all brass post.
- 317-12-8** Statuary Bronze finish all brass post.

With 15" diameter base.

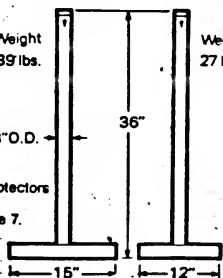
- 317-15-1P**
- 317-15-1S**
- 317-15-2P**
- 317-15-2S**
- 317-15-6**
- 317-15-8**

Weight 39 lbs.

1-5/8" O.D.

No. 66 Floor Protectors optional, see page 7.

Weight 27 lbs.



317 Posts are supplied with either keyholes or snap slots in a "4-way" position. Specify when ordering.



Keyhole
For use with Ball
Type Rope Ends



Snap Slot
For use with Snap
Type Rope Ends

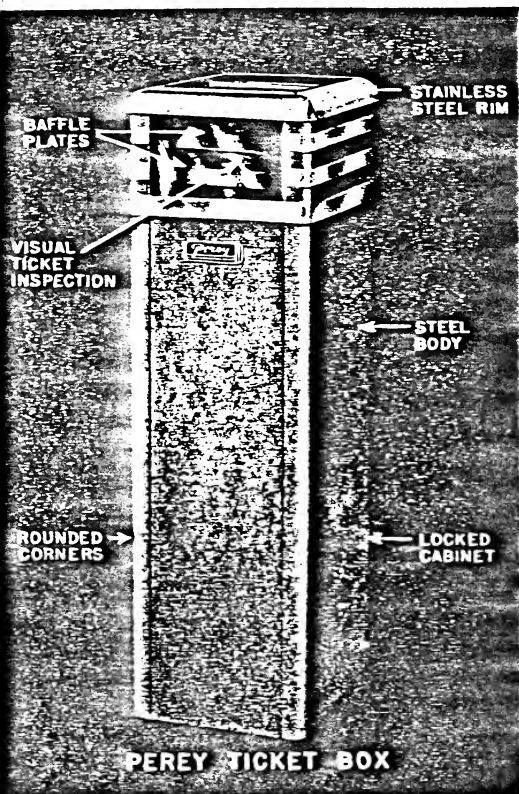
Recommended maximum post spacing - 12" base - 8 feet
15" base - 10 feet

For post accessories, ropes, fittings, etc., see pages 7-12.
For metal finishes, see page 39.

THE *Perey* Ticket Box



L-3



IMPORTANT FEATURES

Trim, Professional Appearance—

Designed to have the "made by experts" style — none of that clumsy, rough, home made appearance.

Modern — Note the pleasing, streamlined combination of glass and metal.

Fraud-Proof — Scientifically designed glass baffle-plates and ticket receptacle with dependable door lock keep tickets safe, after deposit, from unauthorized persons.

Easy For Patrons To Use — 9" square hopper opening, scientifically calculated height make it easy to deposit tickets.

Locked Ticket Cabinet — Heavy, dependable lock guards tickets deposited. Accessible only to person with proper key. Tickets collected in easily removed canvas bag.

Sturdy — Steel body, plate glass baffles and hopper windows make the Perey Ticket Box unusually sturdy and durable.

Safe For Patrons — Smooth surfaces, rounded corners, no protuberances.

Easy to Maintain — No mechanism to get out of order.

SPECIFICATIONS

Height	44 1/2"
Length	12"
Width	12"
Net Weight	40 lb.
Shipping Weight	75 lb.
Finish — Amphibian Green Enamel, Stainless Steel Rim	

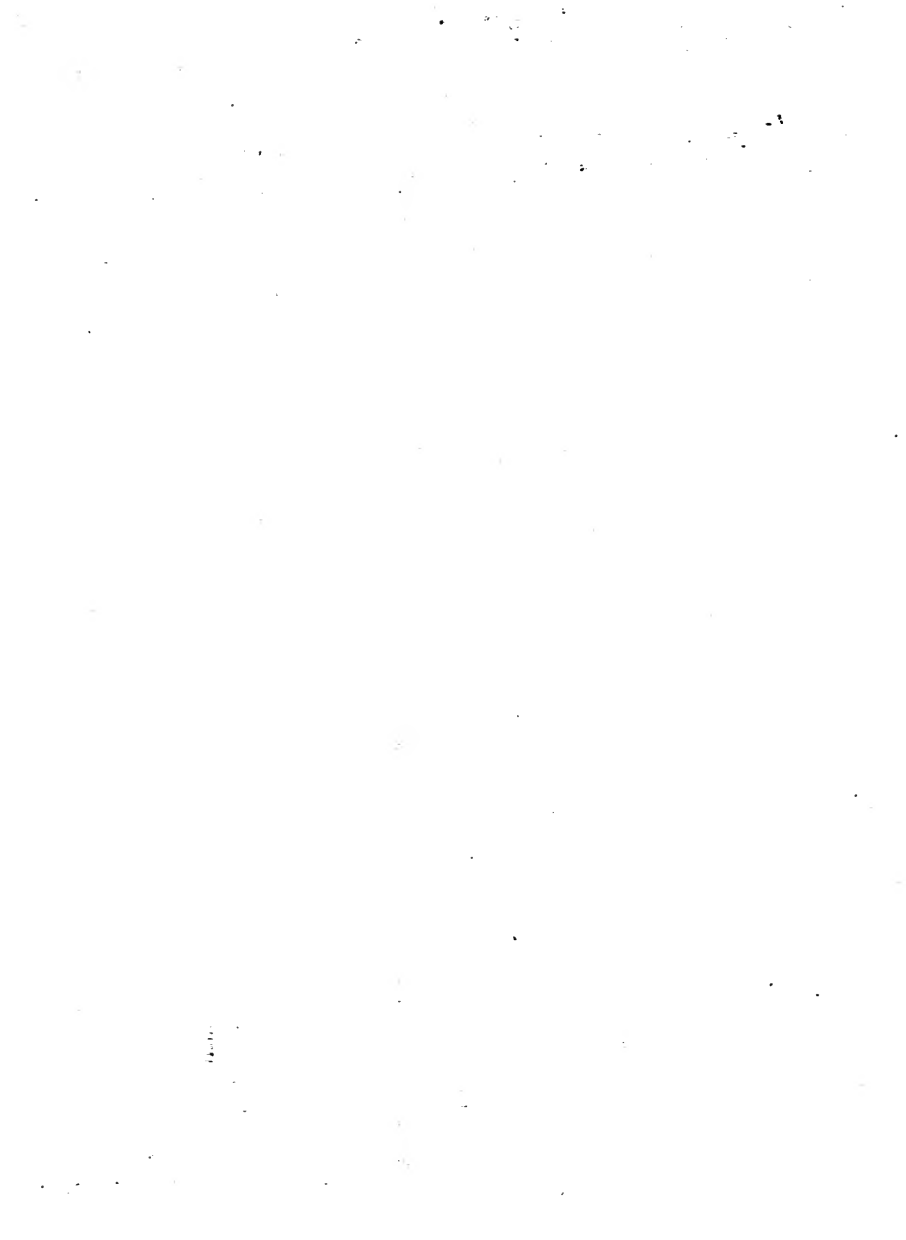
(Specifications Subject to Change Without Notice)



Perey Ticket Boxes and Perey Super Kompak Passimeters in an efficient, artistic entrance control. Note how the Perey Ticket Boxes match and harmonize in appearance with the Perey Turnstiles.

PEREY TURNSTILES

635 Fifth Ave., N.Y., N.Y. 10017
 635 Fifth Ave., N.Y., N.Y. 10017



INDIANA

INDIANA CASH DRAWER COMPANY
P.O. Box 236—1315 S. Miller St.
Shelbyville, IN 46176—Phone 317-398-6643

UNDER and OVER-COUNTER

CASH DRAWERS

Indiana Cash Drawers have been manufactured to the highest quality standards for over 55 years. They are known to be the finest and most practical drawers made.

Models are available in steel or Indiana hardwoods, all attractively and smoothly finished inside and out.

Under counter models have holes drilled in top of case. All models except TD-1 and TD-2 have a warning gong that rings automatically each time the drawer is opened. All drawers are shipped complete in a fibre-board carton.



MODEL EL-1 ELECTRIC CASH DRAWER—115V.

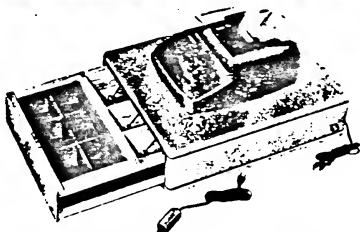
Converts any Electric Adding Machine into a Cash Register.

With No. 3-T removable plastic coin tray 3 currency compartments in rear with hinged bill weights. Left side: 1-6 1/2" long X 4 1/16" wide Right Side: 2 each 6 1/2" long X 3" wide.

Drawer opens when motor bar is operated, not just when total key is activated. Security switch lock eliminates electrical operation of adding machine and drawer. Removable plug lock for use during power failure.

Overall size: 13 3/4" wide X 17 1/2" long X 4 1/2" high.
Shipping weight approximately 25 lbs.

Remote control attachment permits independent use of cash drawer which frees adding machine for use in other areas.



MODEL EL-2 ELECTRICALLY CONTROLLED CASH DRAWER.

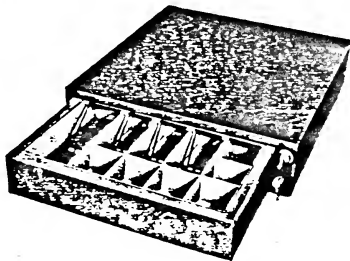
Supplied with removable metal money tray without lid and lock or plastic SBT tray with lock on lid. (See Page 4)

Electrical Data: The drawer is opened by 115V AC continuous duty solenoid. Auxiliary mechanical access in case of power failure is standard.

Construction: All wood parts are made of thoroughly kiln dried hardwood. Warning gong rings automatically each time the drawer is opened. The drawer glides freely and smoothly on linear ball slides and can be closed with the touch of a finger. Exterior covered with durable high density laminate (Instrument Tan-standard)

Overall size: 20 1/2" long X 19 7/16" wide X 4 1/2" high.
Ticket or rolled coin compartment (rear of drawer)—3 1/2" X 15 1/2".

Shipping weight approximately 34 lbs



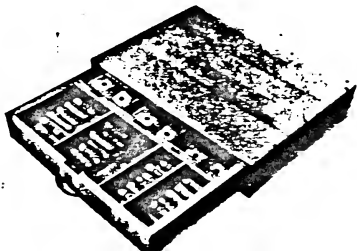
MODEL G-30 WOOD UNDER-COUNTER BANK DRAWER.

4 labeled compartments in front for rolled coins. 3 compartments in rear for packaged currency.

4 roller mechanism permits drawer to roll in and out of case freely. High grade disc tumbler dead bolt lock and drawer pull. Warning gong rings each time drawer is opened. Exterior finish lacquered clear maple.

Overall size: 22 3/4" wide X 16 1/2" long X 4 1/4" high.

Shipping weight approximately 25 lbs.



INDIANA CASH TRAYS

METAL MONEY TRAYS EQUIPPED WITH LOCK-ON LIDS

(Extra trays available so each cashier can have his own.)

STANDARD TRAY on Models R-1, TD-2, K and C.

OTHER INTERIOR ARRANGEMENTS For Models R-1, TD-2, K and C. (Must be specified on order; otherwise, standard I-T supplied.)



NO. 1-T Tray
With Lock-On Lid

(Standard supplied unless other arrangements specified.)

Overall tray size: 15½" wide, 10¼" long, 2¼" high.
6 coin tills, 3 currency compartments and 1 ticket compartment 9¼" x 3¼".
Hinged bill weights in currency and ticket compartments.
Gray baked enamel finish.

NO. 1A-T Tray

Overall size: 15½" wide, 10¼" long, 2¼" high.
4 Coin Compartments: Each 2¼" x 3". 4 Currency Compartments: Each 2¼" x 6½". 1 Ticket Compartment: 4¼" wide x 9¼" long.

NO. 1B-T Tray



Overall size: 15½" wide, 10¼" long, 2¼" high.
5 Coin Tills: Each 3" x 3".
5 Currency Compartments: Each 6¼" x 3".



NO. 3-T Tray
Removable Plastic Coin Tray

Used in Models W-1, and E-1.
Overall size: 10½" wide, 5½" long, 2¼" high.
6 coin compartments, each 3¼" x 2½".



NO. 2-T Tray
With Lock-On Lid

Used in Model TS only.
Overall tray size: 10¼" wide, 13½" long, 2¼" high.

6 coin tills, 2 currency and 1 ticket compartment 9¼" x 4" wide. Hinged bill weights in currency and ticket compartments.
Gray baked enamel finish.



NO. 4-T Tray

Removable metal money tray with lock-on lid.

Used in Model S-4.

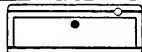
Overall size of tray: 14½" wide, 10½" long, 2¼" high.
5 coin tills across front, each 2¾" x 3". 5 currency compartments back of coin tills, each 2¾" x 6½" and each equipped with hinged bill weights.



No. 5 B-T Plastic Money Tray for R-1, K & C Cash Drawers.

INDIANA CASH DRAWERS for Over or Under-Counter use

(Equipped with DEAD BOLT LOCKS — Must be locked & unlocked with key.)



IMPORTANT
Specify Over or Under-Counter.
Notes drilled in top for under-counter use.

These models are equipped with a manual release button that automatically opens the money drawer, when depressed.

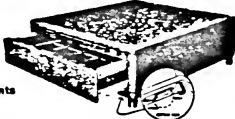
CONSTRUCTION

All wood parts used are made of thoroughly seasoned Kiln-dried hardwood. High grade disc tumbler dead bolt lock. Warning gong rings automatically each time the drawer is opened. Drawer interior — natural high grade lacquer finish.

MODEL C

Featuring a Simple Hidden Locking Device for Extra Security
With NO. 1-T Removable Metal Money Tray with Lock-On Lid.

Recessed cam locking device
Other interior tray arrangements available (illustrated above)



In addition to the regular drawer lock and manual release button, this model has a hidden cam or secret locking device located underneath the front right side of the cash drawer.

When this cam is moved to the left it locks the manual release mechanism and the money drawer will not open when the manual release button is depressed. To unlock the mechanism cam must be moved to the right.

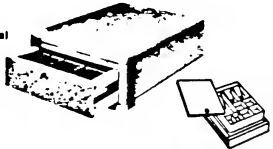
This secret cam is used when it is necessary for the clerk to be away for a few minutes—giving extra security.

Larger extra ticket compartments (rear of drawer): 1-5 7/16" X 6 1/2", 1-5 7/16" X 9 1/16". Equipped with hinged bill weights. Exterior finish—choice of 2—black texture or beige enamel (specify). Overall size of case: 19" wide x 22 1/2" long x 5 1/2" high—6 1/2" (including legs).
Shipping weight approximately 47 lbs.

MODEL TS

With NO. 2-T Removable Metal Money Tray with lock-on lid.
(Illustrated above)

Exterior finish—gray texture.
Overall size of case—13½" wide x 19¾" long x 5 1/2" high.
Shipping weight approximately 32 lbs.



MODEL K

Supplied with NO. 1-T Removable Metal Money Tray with lock-on lid.
(Other interior tray arrangements available (illustrated above))

2 Extra ticket compartments in rear of drawer, equipped with hinged bill weights.

Exterior finish—gray texture.

Overall size of case—19" wide x 20 1/2" long x 5 1/2" high.

2 extra ticket compartments in rear of drawer; one size 9 1/2" x 4 1/2", and one size 6 1/2" x 4 1/2".

Shipping weight, approximately 44 lbs.



INDIANA CASH DRAWER CO. SHELBYVILLE, INDIANA 46176

claro-

LECTURE

EFFECTIVE
PRESENTATION
AND
CREATIVE
MOTIVATION

GUEST SPEAKER
DORIS MUFFALETTO

3:00 TODAY

PLEASE

USE SIDE DOOR
AFTER 5:30

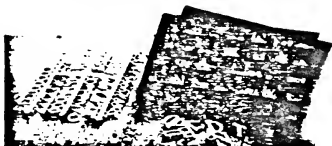
TODAY ONLY

All directory boards
are available in the
following sizes:

height x width
11" x 14"
18" x 24"
24" x 36"
36" x 48"

**available in open
face boards only.

changeable letters



Giero Roman style molded plastic
characters are designed for use
with slotted feltboard signs
and enclosed directories.

plastic characters

- CPL5 assortment of 200
1/2" high characters
- CPL10 assortment of 100
1" high characters
- CPL16 assortment of 100
1 1/2" high characters

storage box

- CPLB durable compartmented
storage box with cover.

counter top unit



The slotted feltboard
counter stands are
made of heavy
extruded aluminum,
satin polished and
are coated with
a baked clear epoxy
to preserve the finish.
Bottoms are felt
covered.

CS4 OPEN FACE BOARD
CSE4 ENCLOSED BOARD

TO ORDER... SPECIFY

- 1... catalog number
- 2... size

MESSAGE BOARDS
REMOVE FOR
EASY MESSAGE
CHANGING.

STRONGER, BETTER
LOOKING AND
REQUIRES LESS
WORKING
ROOM THAN
CONVENTIONAL
DOOR OPENING
UNITS

PLEXIGLASS
FRONT.
ENCLOSURE
IS SAFE
WILL NOT
BREAK.

glaro-
metal products

EASY
ACCESS FOR
AUTHORIZED
PERSONNEL

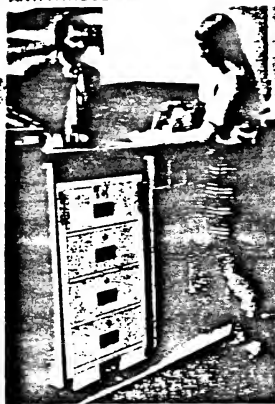
SPECIAL
CONCEALED
MECHANISM
ELIMINATES
THE NEED FOR
PROBLEM KEYS AND
LOCKS AND HINGES
OR OPEN SLOTS.

STURDY
THICK ALUMINUM
IS FINE SATIN POLISHED
AND COATED WITH AN OVEN
BAKED HIGH TEMPERATURE
EPOXY FOR PRESERVATION
(SPECIAL FINISHES ARE AVAILABLE)

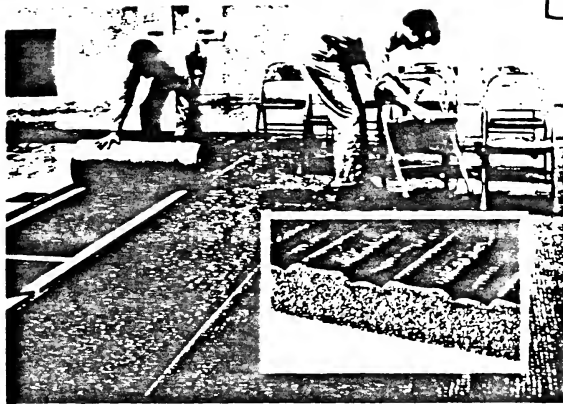
LIFETIME GUARANTEE
ON THE MECHANISM
AND ALL METAL PARTS.

FINISHED PRODUCTS ARE STOCKED IN
QUANTITY FOR FAST SHIPMENTS.
UNITS ARRIVE READY FOR
INSTANT USE.

ANTI-FATIGUE MATTING



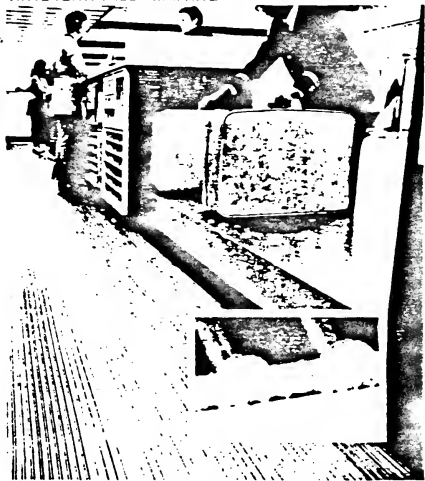
Another terrific idea! Tough but comfortable mats reduce overall fatigue for counter workers and reduce breakage in storage areas. Long lasting, flexible blown vinyl is lightweight and easy to clean by mopping or sweeping.



No.	Description	Color	Pk.
Rolls	1/2" Thickness		
1815	4'x65'	Grey	1
1814	3'x65'	Grey	1
Rolls	3/4" Thickness		
1838	3'x65'	Grey	1

No.	Description	Color	Pk.
Mats	1/2" Thickness		
1823	2'x3'	Grey	6
1835	3'x5'	Grey	1
1812	3'x12'	Grey	1

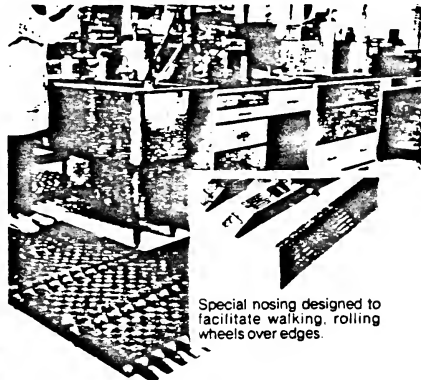
VINYL VERTI-TRED™ MATTING



High quality, skid-resistant floor protection. Non-curl edges. Non-staining. Ribbed texture cleans easily by sweeping or scrubbing. Trims easily. And yet, with all of this, Rubbermaid Verti-Tred matting is very economical.

No.	Description	Size	Color	Pk.
1681	Regular	2' wide, 60' long	Black	1
1682	Regular	3' wide, 60' long	Black	1
1683	Heavy Duty	3' wide, 60' long	Green, Grey	1

DUCKBOARD™ FLOORING

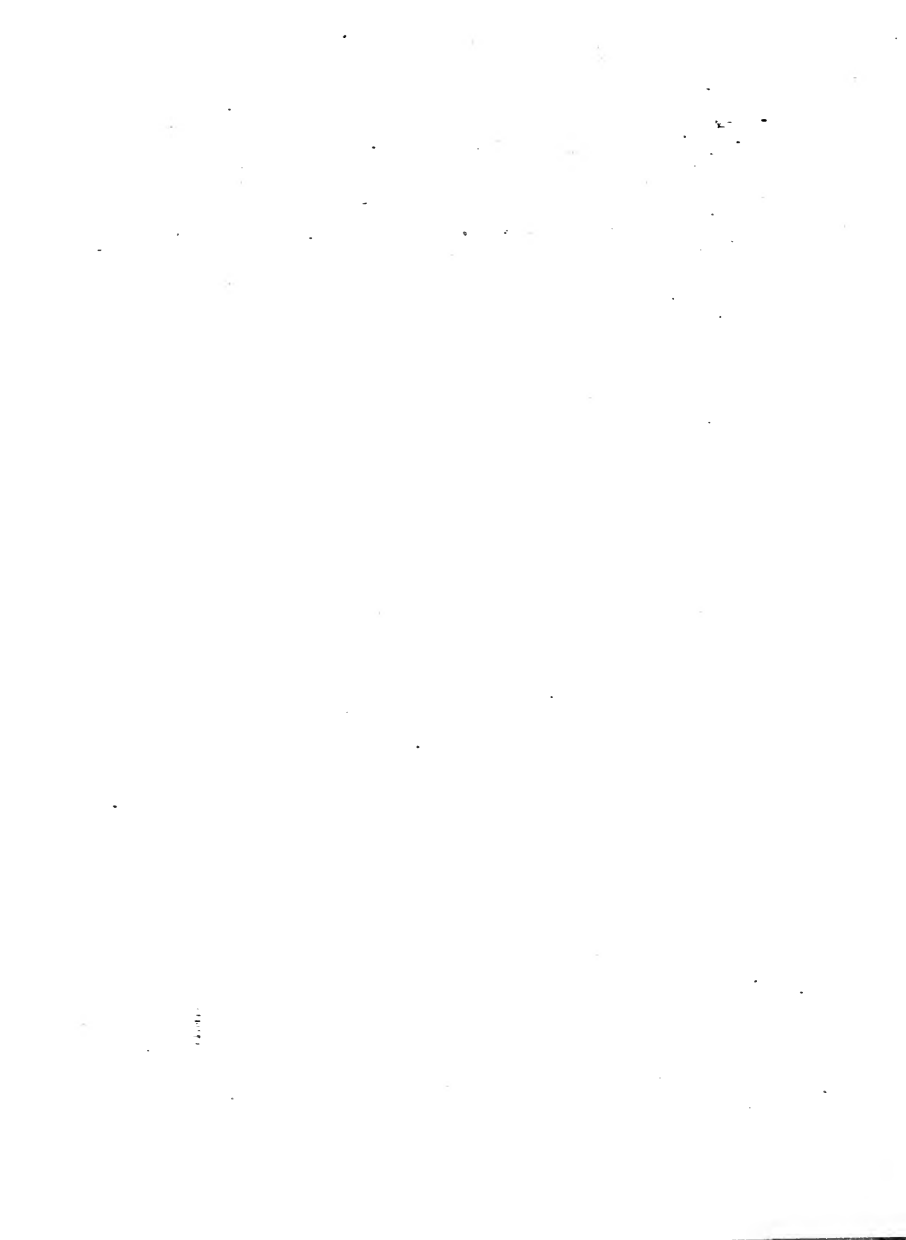


Special nosing designed to facilitate walking, rolling wheels over edges.

Raise your workers out of dangerous grease and water spills while reducing fatigue with unique Duckboard flooring. Modular mats can be locked in all directions and fit any work space. Seamless, non-absorbent Duckboard flooring is made of USDA-mid, accepted materials and complies with FDA regulations. Can be dishwasher cleaned. Resistant to grease, acids, and most chemicals.

No.	Description	Size	Color	Pk.
4936	Duckboard flooring	19 1/2" x 36" x 3/4"	Grey	6
4935	Duckboard flooring	16 1/2" x 36" x 2 1/4"	Grey	12
4934	Anti-Skid Strip	1" x 13 1/2"	Grey	72

U.S. Pat. No. 3,846,945 and D-228,866
Canadian Pat. 1977



ash & Trash"

200 series

Stainless steel smokers.

Various diameters.

Various heights.

Available in the right height

and diameter

for every installation.

Available in polished chrome, bronze or

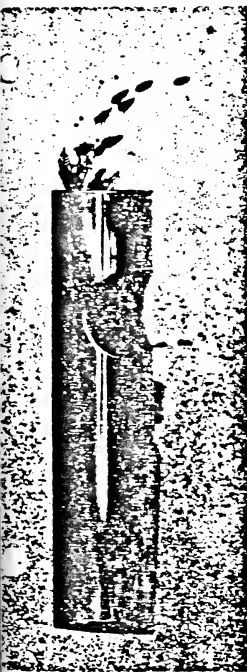
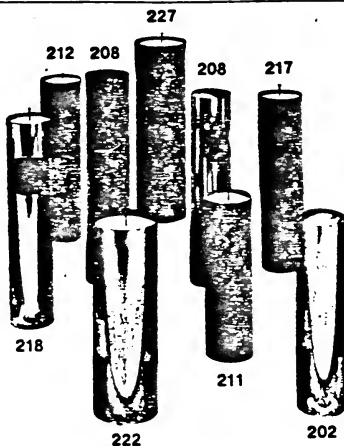
enameled in any

color.

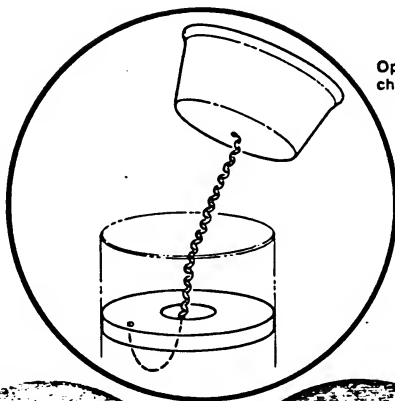
Grouping illustrates representative pieces of the 200 series.

L-8

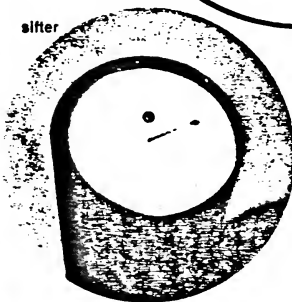
6, 8, 10, WB
wall mount bracket (optional)



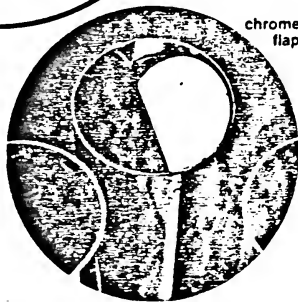
218



Option:
chain attachment



after



chrome
flap

Specifications:

Made from polished steel tubing, (minimum wall thickness .065),
with electro-welded seam.



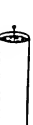







Black enamel, Bronze or Chrome finishes. All interiors are black enamel.

Sifter & sand furnished with all sand urn models.

All floor models weighted with concrete for maximum stability.

Any other PPP color available at 10% extra charge.

15" height available in contract quantities. Please contact factory for prices.

Description	Size	Est. Shipping Wt.	Model No.
	8" x 20"	24 lbs.	24
	8" x 24"	25	24
	8" x 28"	28	24
	6" x 20"	24 lbs.	20
	6" x 24"	25	20
	6" x 28"	28	20
	8" x 20"	24 lbs.	24
	8" x 24"	25	24
	8" x 28"	28	24
	6" x 20"	24 lbs.	20
	6" x 24"	25	20
	6" x 28"	28	20
	10" x 20"	55 lbs.	23
	10" x 24"	60	23
	10" x 28"	65	23
	8" x 20"	25 lbs.	7
	8" x 24"	35	22
	8" x 28"	40	22
	6" x 20"	28 lbs.	21
	6" x 24"	30	21
	6" x 28"	34	21
	10" x 20"	55 lbs.	236
	10" x 24"	60	237
	10" x 28"	65	238
	8" x 20"	30 lbs.	226
	8" x 24"	35	227
	8" x 28"	40	228
	6" x 20"	25 lbs.	218
	6" x 24"	30	217
	6" x 28"	35	218
	6"		WB6
	8"		WB8
	10"		WB10
			
			

Specify for Model No. required

Claridge MOVABLE FREESTANDING CHALKBOARDS

MR-1

New Deluxe Reversible Chalkboard

Claridge Revolving Two-Sided Chalkboard is mounted on heavy, rigid extruded aluminum standards and moves easily on carpet casters. The board revolves on two pins in horizontal plane. The upright posts and crosspieces are 1 1/2" x 2" rectangular tubing with 1/8" thick wall. Chalktrough is 2 1/2" wide and extends the full width of board. Can be stacked to conserve space. Packed singly.

SERIES 146

Standard unit is with chalkboard on both sides or unit is available with chalkboard on one side and cork bulletin board on the other side at no additional cost. We will ship green chalkboard and tan cork (when cork is ordered) if no colors are specified on your order. Other colors of cork and chalkboard optional at no extra cost except LCS White, LCS Sandalwood and LCS Green (available in Vitracite only) which are additional charge of .90 per sq. ft., per side to the Vitracite price given above.

*Vitracite units weigh 2 lbs. per sq. ft. more than Duracite units. Magnetic aids can be used on Vitracite surface (not on Duracite).

Standard Series Reversible Chalkboard

Lighter in construction than Deluxe Series 146 boards, but with the same careful attention to attractive styling. Stands, braces, frame and full-length chalktrough are of satin finished aluminum. All parts are securely joined. Both sides of panel have washable, wear-resistant Duracite surface in choice of green or black or available with Duracite on one side and tan cork on reverse side. Board revolves horizontally and locks in position easily and rigidly. Packed singly.

STANDARD SERIES

Series K Easel Chalkboard

An economical and practical unit for home, classroom or sales meeting use. Opens easily and locks into position with steel hinges. Folds compactly for storage. Chalkboard surface is green Duracite. Frame, easel and chalktrough are extruded aluminum etched and anodized satin finish. Packed singly.

Number	Size	Height	Weight
K211	24" x 36"	Junior	24 lbs.
K212	36" x 48"	Senior	34 lbs.

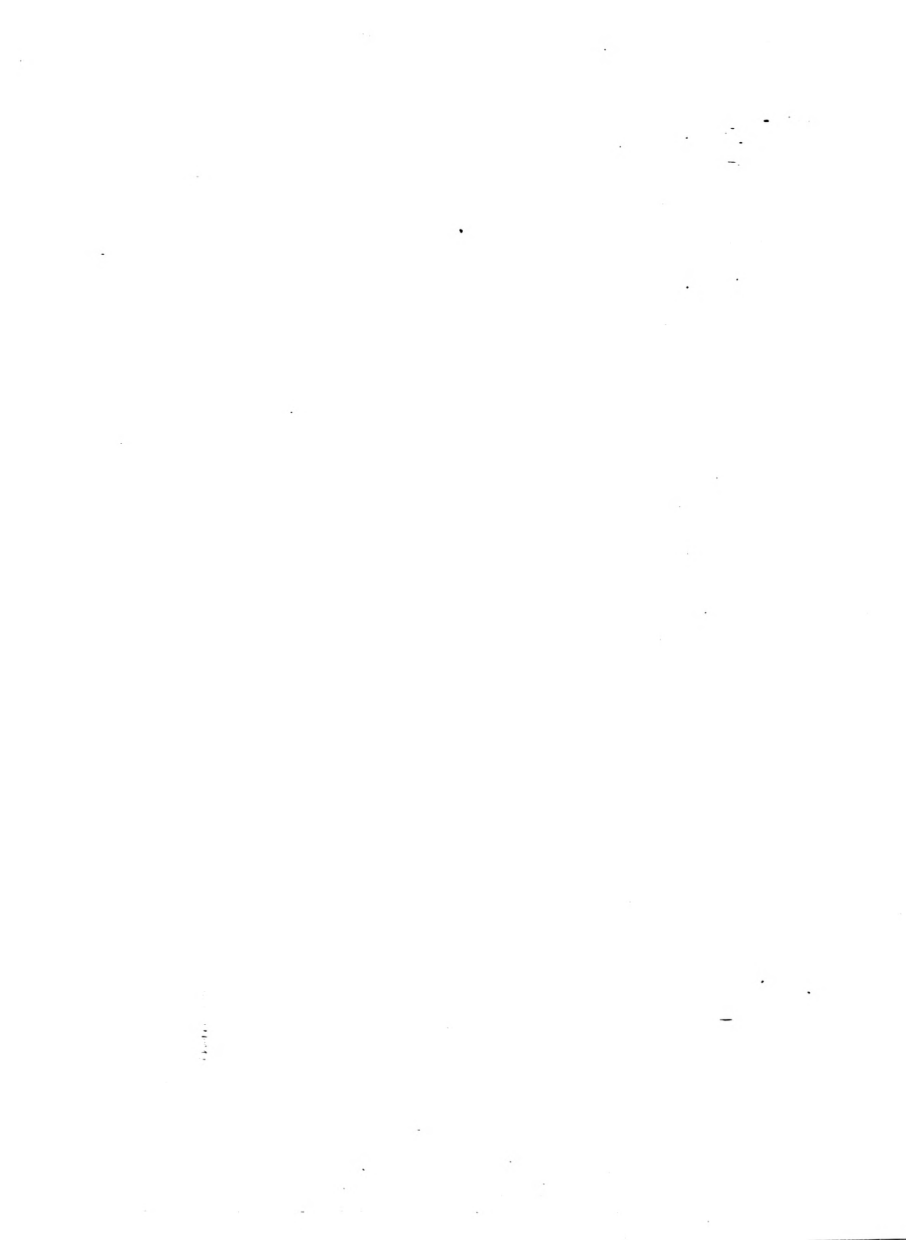
SERIES K

Series C Chalkboards and Bulletin Boards

Modernly styled chalkboard is 3' x 4'. Chalktrough is 28" from floor. Frame and rectangular-tube standards are of etched and anodized satin finish aluminum. Standing bulletin board is 3' high x 2' wide. Available with tan cork or white vinyl. Nos. F3624C and F3624V do not have chalktrays. Units have rubber feet. Single packed.

Number	Size	Surface	Weight
C34	3'x4'	Green Duracite chalkboard one side only	38 lbs.
C35	3'x4'	Green 24-gauge Vitracite chalkboard one side only	48 lbs.
C36	3'x4'	Green Duracite chalkboard one side, tan cork or flannel other side	43 lbs.
C37	3'x4'	Green Vitracite chalkboard one side, tan cork or flannel other side	52 lbs.
F3624C	3'x2'	Natural cork on both sides	28 lbs.
F3624V	3'x2'	White vinyl plastic on both sides	28 lbs.

SERIES C



No. 105 Utility Easel

Here is the very finest in visual-aid easels, designed to add greater versatility and effectiveness to your presentations. It is invaluable for conducting meetings, conferences and educational activities. Light in weight for easy portability. Strong and rigid for sure, confident use.

For Chalk Talks, the easel is equipped with a 29" x 40" chalkboard. The writing surface is of Clearrite Green Duracite, famous for its long wear and excellent writing and erasing qualities.

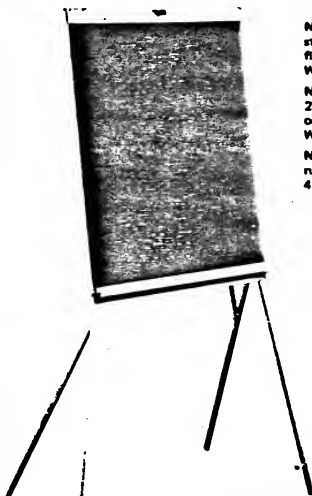
Four legs, of rectangular extruded aluminum, give the easel sturdy support. When the easel is open, the legs lock to prevent easel collapsing. When the easel is closed, the legs fold into the channel frame and are held firmly in place.

All aluminum parts are stetched and anodized. A hinged clamp bar securely grips paper pads of 1/2" thickness. Easel comes with chalk and eraser plus storage box.



No. 105 Easel Folded

The versatile easel folds flat for storing or carrying, as shown. Folded size is 29" x 40" x 2".



No. 105 Utility Easel with chalk, eraser plus storage box and clamps for holding paper pads flat against easel. 72" high, 29" wide, 2" deep. Weight 24 lbs.

No. 105PD Pads of white unruled paper. Size 27" x 34". 50 sheets per pad. Punched 17 1/2" on center. Packed 4 pads in a shipping carton. Weight 22 lbs.

No. 105RS Pads - Same as 105PD pads except ruled with 1" squares in light blue lines. Packed 4 pads to carton.



Ideal for Card or Chart Talks and Paper Pad Presentations.

The chalk trough-card holder holds folding charts or a 2" stack of cards. Convenient hooks on rear legs store the cards. For paper pad presentations a hinged clamp securely holds the pad.

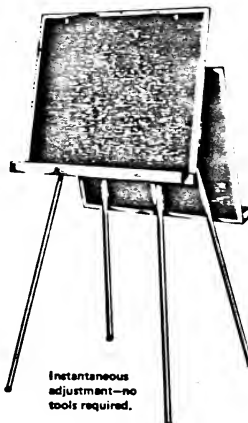
Note: Price of No. 105 and No. LCS-105-W does not include any 105PD or 105RS Pads. These must be ordered separately.

Adjustable Drawing Easel

Available with either single drawing panel or double drawing panels, the Drawing Easel offers wide versatility. Drawing panels are 20" x 26" x 1/4" and adjust from 41" to 53" in height. Panels have a green chalkboard surface. Extruded aluminum paint trays catch paint drippings and remove easily for cleaning.

Adjustable mechanism is simple, positive and fool-proof. Half a turn of the lock nut, in easy reach, loosens the panel for adjustment. Another half turn locks the panel at desired height. Adjusting guide tracks keep drawing panels level at any selected height.

Easel legs are 5/8" round aluminum. Legs lock firmly in open position, are hinged to permit compact folding for storage.



Instantaneous adjustment—no tools required.

No. LCS-105-W Utility Easel

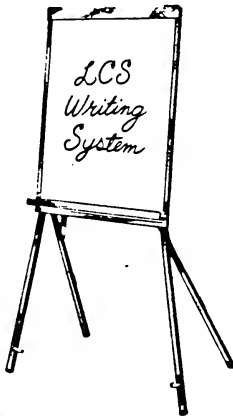
This light weight, portable easel is strong and versatile. It features a 29" x 40" white LCS liquid chalk writing surface which is excellent in making presentations, conducting meetings, and conferences.

The graphically textured LCS surface takes a positive image from felt tip LCS liquid chalk markers of red, blue, green or black.

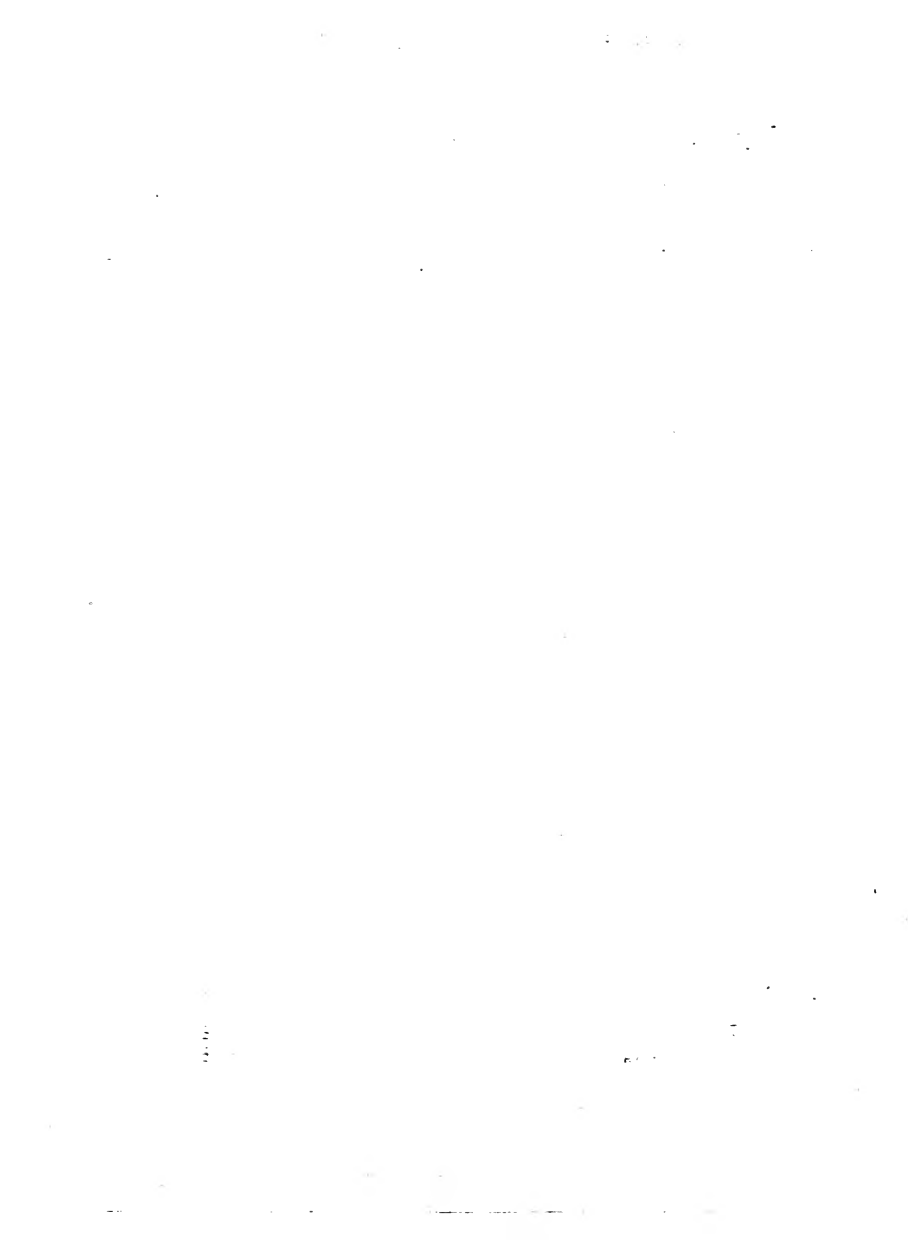
The LCS easel is supported by four legs of rectangular extruded aluminum. The legs lock when easel is open, and fold into the channel frame when easel is closed.

A hinged clamp bar at the top securely holds paper pads of up to 1/2" thickness.

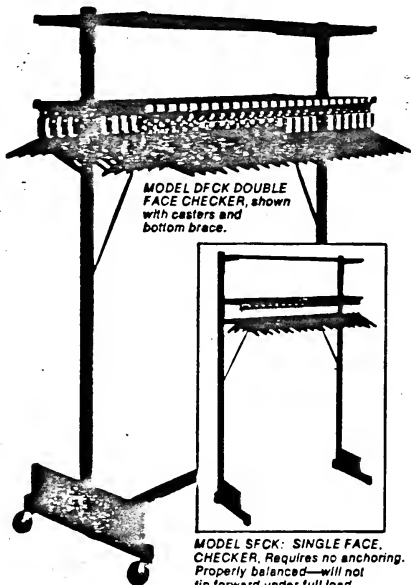
No. LCS-105-W complete with 12 assorted LCS markers and a felt eraser. For use with LCS markers only. Wt., 30 lbs.



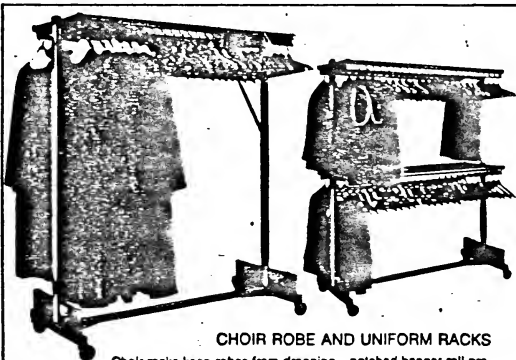
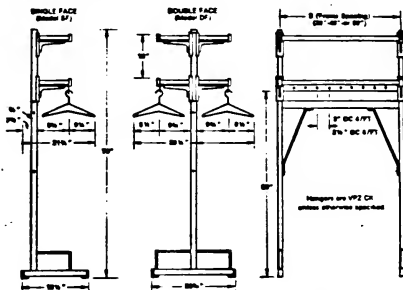
Number	Description	Weight
E3026	Single-Panel Easel	18 lbs.
E5026	Double-Panel Easel	22 lbs.



CHECKER® COAT AND HAT R, MR-2



The sturdy, attractive design, quality materials, expert finishing and efficient checking system make the Checker by Vogel-Peterson the preferred choice of architects and designers. Racks are constructed of heavy gauge steel and cast aluminum brackets with modern rectangular tubular posts. Available in standard units 3, 4 and 5 foot long that interlock to make any length. Vogel-Peterson High Relief "Dust Free" Hat Shelves are perforated and embossed with narrow longitudinal ribs that keep hats clean and dry. This durable modern shelving is built for lifetime service. The chrome plated 16 gauge roll formed reversible hanger rail resists deflection under maximum garment load.

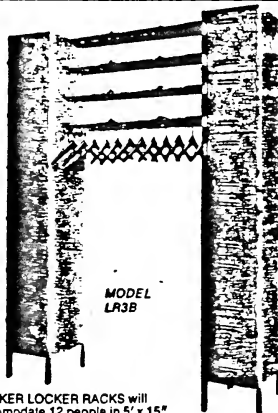


CHOIR ROBE AND UNIFORM RACKS

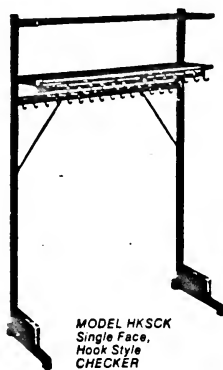
Choir racks keep robes from dragging—notched hanger rail prevents their getting pushed together. Uniform rack stores 100 uniforms neatly spaced—plenty of distance between shelves so even long uniforms hang straight.

MODEL CR5-50: 5 ft. long, holds 50 robes
MODEL CR4-40: 4 ft. long, holds 40 robes
Overall Height: 6'0 1/4"
Overall Width: 26 1/4"

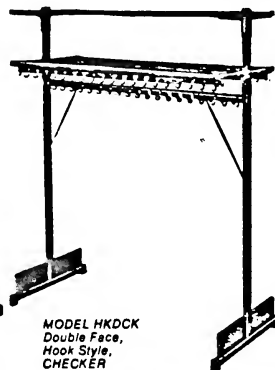
MODEL US5-100: 5 ft. long, holds 100 uniforms
MODEL US4-80: 4 ft. long, holds 80 uniforms
Overall Height: 6'4 1/4"
Overall Width: 26 1/4"



CHECKER LOCKER RACKS will accommodate 12 people in 5' x 15" floor space. Height 6'7 1/2". Provide each with ventilated hat space, coat hanger and 12" x 12" x 15" Lock Box (6 to each pedestal). Doors have "stay shut" hasp. (Built-in master keyed locks available.) Choice of baked enamel colors: Architectural Bronze, Desert Tan, Medium Gray, Mist Green.



MODEL HKSC
Single Face,
Hook Style
CHECKER



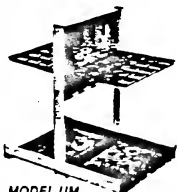
MODEL HKDC
Double Face,
Hook Style,
CHECKER



**MODEL
HKWK**

HOOK RACKS

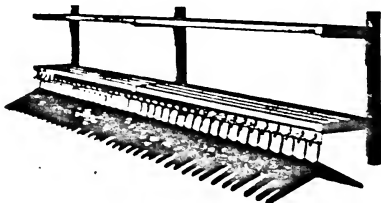
These sturdy, compact units are recommended: (1) Where large capacity must be attained in limited space or (2) where it is undesirable or unnecessary to use the hanger type rack. Two shelves on 13" centers gives ample space for hats, caps, books, etc. Large heavy chrome plated steel hooks are 3" O.C. on two supporting rails (as illustrated), giving a capacity of 8 hooks per running foot (single faced racks) or 16 hooks per foot (double faced racks).



MODEL UM
UMBRELLA STAND:
A smartly designed quality stand for 16, 20 or 40 umbrellas. UM16 and 20 measure 23" high—13" deep—14" or 17" wide, respectively. UM40—base to back style 23" high x 17" wide x 22 1/2" deep.



MODEL OS7
OVERSHOE RACK:
A checkroom necessity in climates where rubbers and geloshes are used. Compartments measure 6" x 6" x 13" deep. Furnished in standard size units of 25 capacity 31" wide, 13 1/2" deep x 33" high.

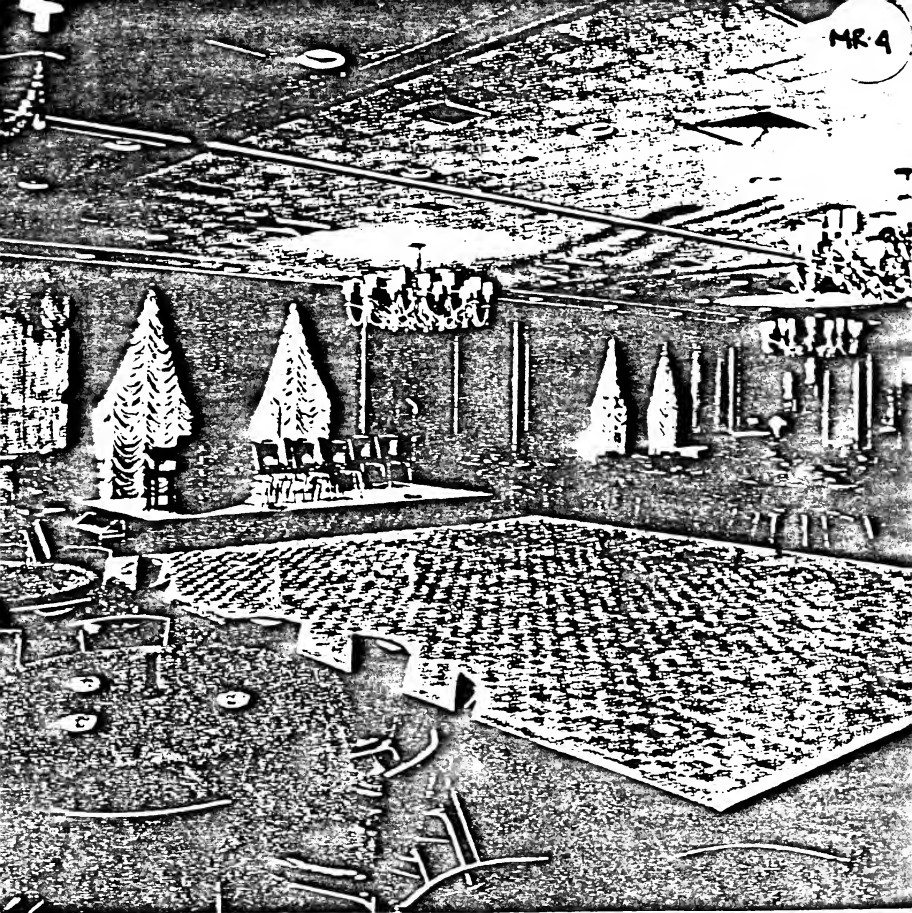


MODEL WMCK HANGER STYLE WALL RACK:
Illustrated WMCK 8' 1 1/2" long. All WMCK series are 12 1/2" deep, 28" high, extends 20" from wall including hangers. These efficient coat and hat units mount rigidly on walls, accommodate 4 or 5 persons per running foot. Add-on lengths also available.

SPECIFICATIONS

Upright Frame: Assembled into one solid unit. Posts 1 1/2" x 1 3/4" 16 ga. welded rectangular tubing. Heavy cast shelf brackets formed to engage one piece shelves in a locked position. Bases: #16 ga. x 1 1/4" wide by 1 1/4" high and boxed form bracing 5" high by 10 1/2" wide are welded to upright posts. Base ends are fitted with plastic glides. Shelves: One piece design perforated and embossed sheets of #21 gauge steel formed into rigid unit. Front and back face of shelves channel formed 3/4" high. Ends of shelves self lock into coat shelf brackets. Longitudinal embossed ribs between perforations hold hats free of dust. Hanger Rail: Roll formed chrome plated angular shaped section 1 1/4" inches by 1 1/4" inches. Notched 3 or 2 1/2" o.c. to receive garment hangers or supplied with nylon receptacles for use with ball top hangers. Bracing—Spacer bars: 1 1/4" x 1 1/4" rectangular tubing engage between uprights at lower shelf position. Sway braces 3/16" x 1/2" flat steel. Garment Hangers—VP-2CK: Durable, molded black plastic with simulated leather grain with open loop hooks for coat checks (locks hangers on rail preventing knocking off accidentally).

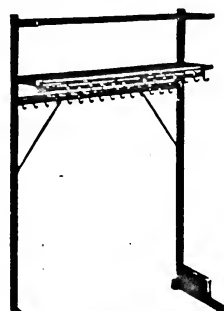
Numbering and Checks: Hanger and hat spaces numbered with large clear cut numerals hot-stamped white plastic labels that fasten securely to front shelf channels—furnished only if specified. **Plastic Checks:** 1 1/2" x 1 1/4" with large clear hot-stamped numbers. Furnished only if specified. Checks furnished in three colors—Black—White—Red. Printed with name of user when specified. Color: Steel is washed and rust-proof coated before application of enamel. Enamel is baked-on at 350°. Baking time thirty minutes. Colors: Desert Sand—Mist Green—Medium Gray or Architectural Bronze. Capacity: Standard spacing of hangers is 3" o.c. or four to the foot. Can be furnished on 2 1/2" o.c.—five to the foot—or 4" o.c.—three to the foot—when specified. Casters: 3-inch Ball-bearing Swivel Casters. Furnished only when specified. Not recommended on racks exceeding ten feet in length. All racks ordered with casters are furnished with bottom bracing extending between base sections of uprights. We reserve the right to make changes in above specifications which we deem to be improvements in design-function and/or construction.



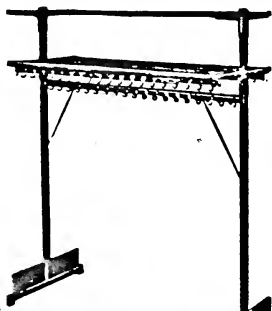
SICO®

NEWLY DESIGNED
PORTABLE DANCE FLOOR

center of attraction in any setting



MODEL HKSC
Single Face,
Hook Style
CHECKER



MODEL HKDC
Double Face,
Hook Style
CHECKER



**MODEL
HKWC**

HOOK RACKS

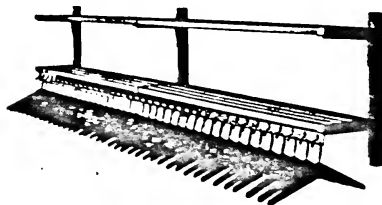
These sturdy, compact units are recommended: (1) Where large capacity must be attained in limited space or (2) where it is undesirable or unnecessary to use the hanger type rack. Two shelves on 13" centers gives ample space for hats, caps, books, etc. Large heavy chrome plated steel hooks are 3" O.C. on two supporting rails (as illustrated), giving a capacity of 8 hooks per running foot (single faced racks) or 16 hooks per foot (double faced racks).



MODEL UM
UMBRELLA STAND:
A smartly designed quality stand for 16, 20 or 40 umbrellas. UM16 and 20 measure 23" high—13" deep—14" or 17" wide, respectively. UM40—back to back style 23" high x 17" wide x 22½" deep.



MODEL OS
OVERSHOE RACK:
A checkroom necessity in climates where rubbers and galoshes are used. Compartments measure 6" x 6" x 13" deep. Furnished in standard size units of 25 capacity 31" wide, 13½" deep x 33" high.

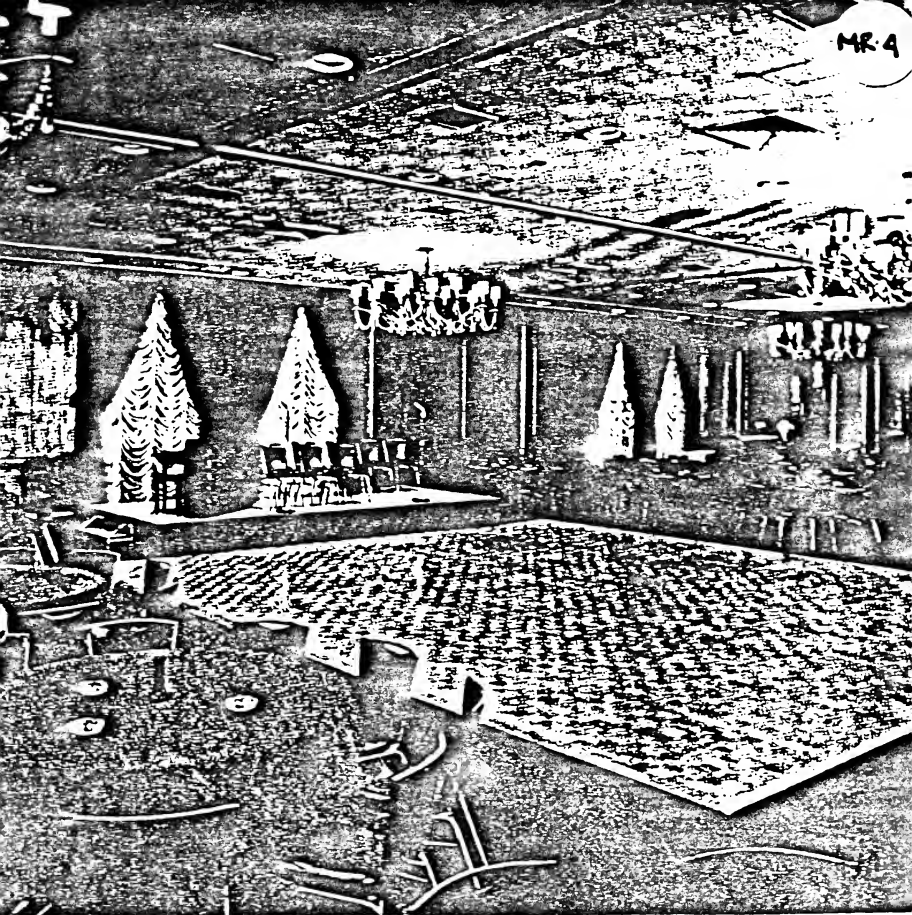


MODEL WMCK HANGER STYLE WALL RACK:
Illustrated WMCK 8'1½" long. All WMCK series are 12½" deep, 28" high, extends 20" from wall including hangers. These efficient coat and hat units mount rigidly on walls, accommodate 4 or 5 persons per running foot. Add-on lengths also available.

SPECIFICATIONS

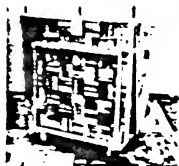
Upright Frame: Assembled into one solid unit. Posts 1½" x 1¾" 16 ga. welded rectangular tubing. Heavy cast shelf brackets formed to engage one piece shelves in a locked position. Bases: *16 ga. x 1¼" wide by 1¾" high and boxed form bracing 5" high by 10½" wide are welded to upright posts. Base ends are fitted with plastic glides. Shelves: One piece design perforated and embossed sheets of #21 gauge steel formed into rigid unit. Front and back face of shelves channel formed ½" high. Ends of shelves self locks into coat shelf brackets. Longitudinal embossed ribs between perforations hold hats free of dust. Hanger Rail: Roll formed chrome plated angular shaped section 1⅝ inches by 1½ inches. Notched 3 or 2½" o.c. to receive garment hangers or supplied with nylon receptacles for use with ball top hangers. Bracing—Spacer bars: 1½ x 1¾" rectangular tubing engage between uprights at lower shelf position. Sway braces ¾" x ½" flat steel. Garment Hangers—VP-2CK: Durable, molded black plastic with simulated leather grain with open loop hooks for coat checks (locks hangers on rail preventing knocking off accidentally).

Numbering and Checks: Hanger and hat spaces numbered with large clear cut numerals hot-stamped white plastic labels that fasten securely to front shelf channels—furnished only if specified. Plastic Checks: 1½" x 11½" with large clear hot-stamped numbers. Furnished only if specified. Checks furnished in three colors—Black—White—Red. Printed with name of user when specified. Color: Steel is washed and rust-proof coated before application of enamel. Enamel is baked-on at 350°. Baking time thirty minutes. Colors: Desert Sand—Mist Green—Medium Gray or Architectural Bronze. Capacity: Standard spacing of hangers is 3" o.c. or four to the foot. Can be furnished on 2½" o.c.—five to the foot—or 4" o.c.—three to the foot—when specified. Casters: 3-inch Ball-bearing Swivel Casters. Furnished only when specified. Not recommended on racks exceeding ten feet in length. All racks ordered with casters are furnished with bottom bracing extending between base sections of uprights. We reserve the right to make changes in above specifications which we deem to be improvements in design-function and/or construction.



SICO®

NEWLY DESIGNED
PORTABLE DANCE FLOOR
center of attraction in any setting

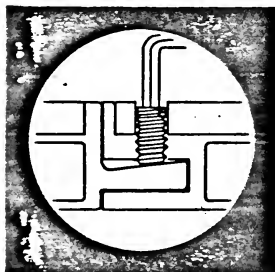
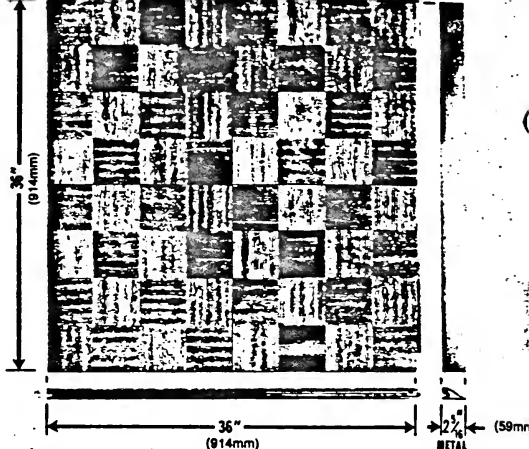


"CADDY"

Available for convenient dance floor panel storage. Carries and stores other things too.

Construction: 1" square, 16 gauge, cold rolled C1020 steel. Electrically arc welded construction. Casters: 5 inch, two stationary and two swivel. All with self-lubricated bearings, solid core and non-marking treads.

Width: 28" (711mm); Length: 60" (1524mm); Height: 36" (914mm); Weight: 55 lbs. (17kg); Capacity: 20 sections. Model 1316.



A simple metal tongue and groove arrangement couple the 3-foot squares together quickly and tightly.

CONTRACT SPECIFICATION

Surface: Top grade Appalachian oak parquet manufactured from 1" x 6" oak strips (minimizing the effects of expansion and contraction).

Locking and leveling: Automatically, through the use of specially designed, heavy aluminum extrusions.

Finish: Prefinished and waxed at the factory. **READY TO DANCE.**

Core: 3/4-inch resin-board of 40 P.C.F. density.

Weight: 37 lbs. per section.

PRICE NOTATIONS

3' x 3'	3' TRIM	CADDY

Write for Information on Other SICO Products

Mobile Folding Stages

Folding Well Beds

Mobile Folding Tables

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Aldford, Kent TN24 8QH
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Phone (0233) 25112

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Nakamura Building
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Minami, 2-chome
Shibuya-ku
Tokyo, Japan
Postal Code No. 150
Phone 03 (719) 7227, 7228, 7778

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SICO-Schroeder & Company
Beneb
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Industriestrasse 1 D
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Phone (06131) 881301 + 88

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Bavje n. 801. 0.
61000 Ljubljana
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69130 Noisy-le Sec
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Markham, Ontario L3R 2S3
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NEW ZEALAND
SICO South Pacific
Industries Limited
P.O. Box 4024, Mayfair
Hastings, New Zealand
Phone 87-038

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SICOM
Rue de Geneve 87
1004 Lausanne, Switzerland
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7525 CAHILL ROAD
MINNEAPOLIS, MINN. 55435 U.S.A.
Phone: 612-941-1700
Cable: WILSICO, Mpls.

SICO Inc. reserves the privilege to substitute materials or make changes in materials are not available and/or such changes improve the product.

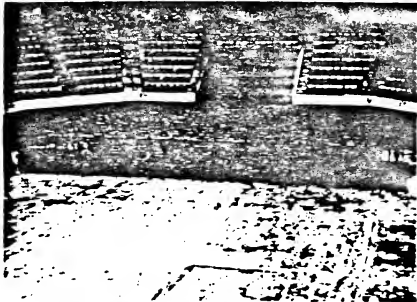
The product presented in this catalog may be covered by one or more of the following patents: United States 3,310,919; Argentina 173,002; Australia 200,348; Canada Patented 1987; France 1,461,511; Great Britain 1,045,578; Italy 732,777; Japan 622,736; Mexico 78,520; South Africa 70,455; Spain 328,930 (Patent of Importation); Turkey 14,630 (Patent of Importation); West Germany 1,509,841; New Zealand 158,849; Netherlands 145,313; Trademark SICO® also registered trademark in Afro-Malagasy Union, Algeria, Argentina, Austria, Benelux, Bolivia, Canada, East Germany, Iraq, Israel, Japan, 684,702; Kuwait, Luxembourg, Netherlands, New Zealand, Paraguay, Poland, Rumania, Sweden, South Africa, Syria, Turkey, Uruguay, Uganda, U.S.S.R., Yugoslavia, Marica Registrato; Marica Deposte; Schutzmarke; Schutzmarke, Vedeqy, Van, Indonesia, Singapore, applications for registration pending in other countries of the world.

Trademark SICOM® registered Industraler Varemarkte, Finland, Marica Deposte, Great Britain, Norway, Spain, Sweden and Irish Republic(Ireland).

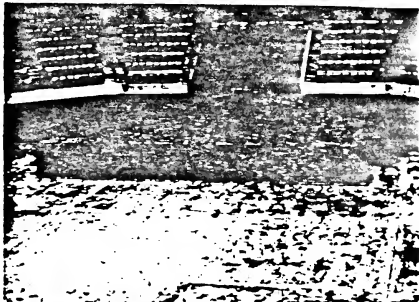
Multiplying the use of existing space is easier than ever with flexible, Multi-Height Series 1700

No permanent built-in stage can serve all the functions that are possible in today's multiple use buildings. SICO stages can—and they do it for approximately one-half to two-thirds the cost of built-in stages. Here are just a few of the many configurations possible from one SICO stage system.

And to make sure you're getting a stage system that meets your needs today and for years to come you can take advantage of a free SICO space/use analysis of your own particular needs by a SICO staging expert.



Concert Stage with Barrier



Master Performance Stage



Band or Chorus Riser



Head Table Riser



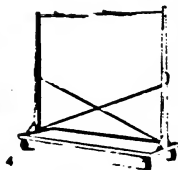
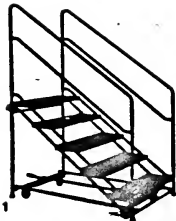
Theatrical Stage with Orchestra Pit



System Components

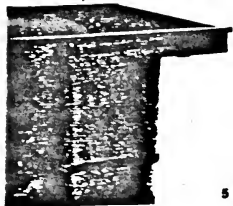
(Include only those applicable to your requirements)

- (1) **Stage Steps:** Choose from 2 to 5 step models for stages from 24" to 48" high. Steps 24" or higher (3, 4 and 5 step models) are furnished with side rails. 32" and higher have built-in caddies. Tread surfaces are 36" long, 12" deep.
- (2) **Chair/Table Stop:** Steel angle bars attach quickly to the outside edges of SICO stages and rest $\frac{1}{8}$ inch above the surface of the stage deck. Prevents tables and chairs from being accidentally pushed over the edge.
- (3) **Guard Rails:** This added safety feature is available for use with all SICO stages and risers. These guard rails attach quickly and securely to the lower edge of the decking and to the unit framework. Available in 36", 48", 72" or 96" lengths.
- (4) **SICO Trucks:** Rugged trucks for transporting and storing drapes, guard rails, and chair stops. Push-pull handle and four swivel casters for complete mobility.



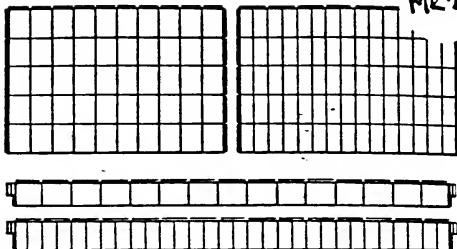
SICO Brings Aesthetics to Staging

- (5) **Draperies:** No stage is complete without the finishing touch that draperies add. Velcro fasteners make them fully adjustable in length . . . they change height with the stage! And Velcro also makes them extra easy to attach and remove. SICO-supplied draperies are made of attractive flame-retardant fabric which retains its beauty over the years. They match companion SICO backdrop draperies. Choose from more than a dozen colors, or supply us with your drapery material and we will custom-fit draperies to your stage sizes.
- (6) **Stage Backdrops:** When you want to add a finishing touch, accent the aesthetic, or shield the performers until curtain-time . . . a SICO backdrop is the practical solution. They give the unit a very finished, professional look.
- (7) **Carpeting:** SICO stages can be ordered with decks of beautiful, long-wearing carpeting in lieu of the standard deck surface. It adds a special touch of elegance as well as allowing you to totally color coordinate your stage with existing decor. Choose from a dozen attractive colors, or if you prefer, you may supply us with your own special carpeting and we will install it to your order.



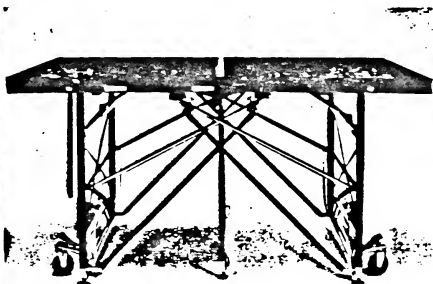
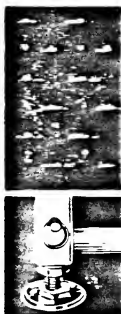
Only SICO makes a 6' x 8' stage

This means fewer units to purchase, set up, take down and store. You save on your initial purchase and on operating costs every time you use them. For example, fifty - 6' x 8' units make a 40' x 60' Master Performance Stage compared to seventy-five - 4' x 8' units — that's 33% fewer. And a 120' Head Table Riser requires only fifteen - 6' x 8' units — exactly half of the thirty - 4' x 8' units needed — and saves 240 sq. ft. of floor space. SICO also manufactures a conventional 4' x 8' stage for use where this size is most desirable. It is identical in every respect to SICO's 6' x 8' unit except for depth.



Performance from top to bottom from SICO

You'll find SICO performance features everywhere you look on SICO Series 1700 stages. On the top is a new (exclusive to SICO) non skid deck surface that is indoor/outdoor, non reflective and acoustical. Below are new adjustable glides to ensure true balance and leveling, even on uneven surfaces.

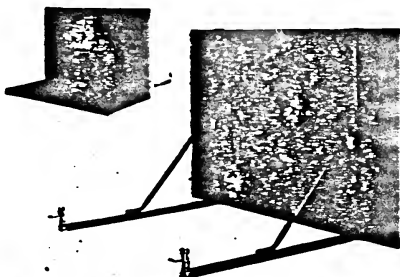


The New SICO Barrier

Designed to assist in the control of crowds. With fast and easy set up and take down this new barrier provides a 5' high wall around the front and sides of your SICO stage.

The new SICO barrier extends from 61" to 109" from the 8' side and 47" to 95" from the 4' or 6' end of the stage to provide a walk way between the stage and barrier.

An optional accessory is the Self-Anchoring-Stand-On-Panel. This 4' x 8' panel attaches to the upright supports of the barrier and lays directly on the floor. This panel, with the weight of the audience, counteracts the pressure put on the barrier panel.



SICO Multi-Height Series 1700

Available in two stage sizes

The SICO Multi-Height Series 1700 offers the flexibility and time-saving advantages which have always been important attributes of all SICO Mobile Folding Stages. The Series 1700 goes where you need it, adjusts to the necessary height, then folds and stores, freeing the floor space for other uses. But, most important of all is the fact that SICO's new Series 1700 is completely self-contained. It adjusts to several heights up or down without tools, without scaffolding... manually, or with a fork lift. New adjustable glides ensure true balance and leveling, even on uneven surface.

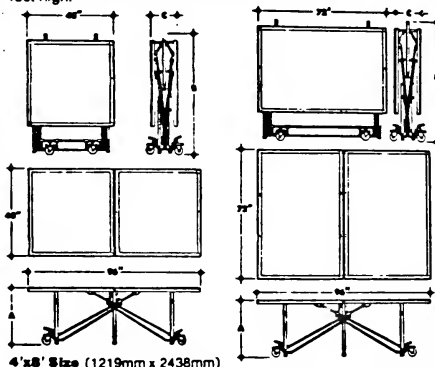
The picture sequence below shows how the stage legs extend and lock into position at various heights. (Note the self-locking connecting hooks on the legs 8" below the stage platform. This feature allows SICO stages to lock together at different levels for added flexibility.)



SICO offers a complete line of accessories: steps, draperies, guard rails, chair and table stops, backdrops and trucks for moving draperies and guard rails. Even if your requirements call for carpeted stages, specially cut stage shapes or custom sizes, we can deliver exactly what you need. Furthermore, every stage accessory must measure up to SICO's quality standards — the highest in the industry. In short, if it bears the SICO name, it's built to last.

Equipment illustrated in this catalog is especially designed to provide maximum flexibility in heavy duty function situations and yet to be quickly and easily stored in a minimum of space when not in use. The equipment is designed to provide the utmost in safety of operation and must be handled by experienced professional people who are accustomed to working with similar equipment.

As the drawings below show, the SICO Multi-Height Series 1700 is available in two sizes — the conventional 4x8-foot module and the exclusive SICO 6x8-foot configuration. Each basic stage unit is capable of either three or four specific multiple height adjustments in 8" increments. Heights are available from 24" all the way up to 6 feet high.



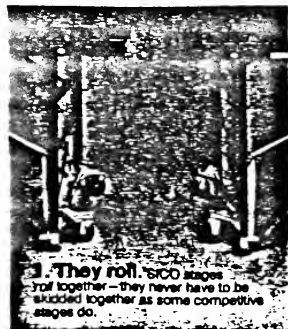
4'x8' Size (1219mm x 2438mm)

Model No.	A	B	C
1703-440	24" to 32" to 40" (610mm to 813mm to 1016mm)	62" to 70" to 78" (1575mm to 1778mm to 1981mm)	22½" (572mm)
1703-448	32" to 40" to 48" (813mm to 1016mm to 1219mm)	70" to 78" to 86" (1778mm to 1981mm to 2184mm)	22½" (572mm)
1704-472	48" to 56" to 64" to 72" (1219mm to 1422mm to 1625mm to 1828mm)	86" to 94" to 102" to 110" (2184mm to 2387mm to 2590mm to 2793mm)	22½" (572mm)

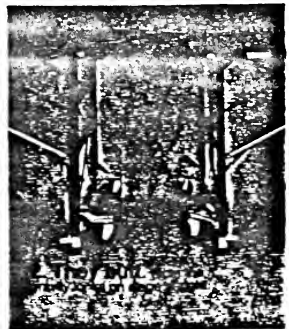
6'x8' Size (1829mm x 2438mm)

Model No.	A	B	C
1703-640	24" to 32" to 40" (610mm to 813mm to 1016mm)	62" to 70" to 78" (1575mm to 1778mm to 1981mm)	22½" (572mm)
1703-648	32" to 40" to 48" (813mm to 1016mm to 1219mm)	70" to 78" to 86" (1778mm to 1981mm to 2184mm)	22½" (572mm)
1704-672	48" to 56" to 64" to 72" (1219mm to 1422mm to 1625mm to 1828mm)	86" to 94" to 102" to 110" (2184mm to 2387mm to 2590mm to 2793mm)	22½" (572mm)

SICO stages lock together as easy as 1-2-3



1. They roll. SICO stages roll together—they never have to be sukked together as some competitive stages do.



2. They lock. SICO stages lock together easily.



3. They lock. SICO stages lock together securely—no need to be sukked together as some competitive stages do.

The 1800 Series from SICO offers all the advantages of a mobile folding stage, plus the added simplicity and speed of built-in height adjustability. And it does it without tools, without scaffolding.

The 1800 Series is your key to more efficient space usage. It's mobile, so it goes where you want it, when you want it, in the size you want, to meet the needs of many activities. Or it can be folded and stored, freeing the floor space for other uses.

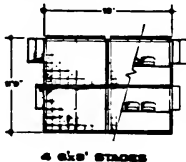
SICO offers everything necessary for complete, professional staging: backdrops, steps, draperies, drapery hangers, corner sections, guard rails and extensions, chair and table stops, and trucks for moving draperies and guard rails.

Even if your requirements call for carpeted stages, specially cut stage shapes or custom sizes, we can deliver exactly what you need. Furthermore, every stage and stage accessory you see in this catalog must measure up to SICO's quality standards — the highest in the industry. In short, if it bears the SICO name, it's built to last.

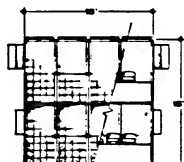
And to make sure you're getting a stage system that meets your needs today, tomorrow, and for years to come, you can take advantage of a SICO space/use analysis of your own particular needs. It's performed by a SICO staging expert and it's yours free. (For specific details see page 7.)

SICO's Mobile Folding 6x8-foot Dual-Height Stage... the only one of its kind. SICO's exclusive 6-foot stage depth can result in a savings of labor and time during setup and takedown, as well as providing extra seating capacity. To illustrate how this happens let's take the example of a typical Head Table Riser.

Unlike the double rows of ordinary 4'x8' conventional stage sections available from other manufacturers, exclusive 6x8-foot SICO Stage Modules require exactly half the number of units which set up in about one-fourth the time. Why? Because this SICO 6-foot stage depth allows 30 inches for tables, 18 inches for chairs, plus 24 inches of serving space. Instead of a two-tier head table riser requiring 16 feet of total depth (using 4x8-foot units), SICO's 12-foot depth offers an extra 4 feet of floor space for additional tables and chairs in front of the riser. Another exclusive advantage SICO offers is the "gang lock" feature. It assures that all stage modules automatically lock together without special tools. From storage to set-up, it takes just a few minutes per module. See page 7 for complete specifications.



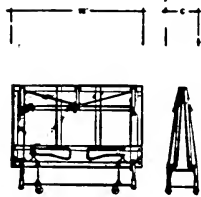
4'x8' STAGES



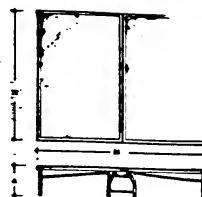
4'x8' STAGES

SICO 4x8-foot Mobile Folding Dual-Height Stage. This stage is identical in every respect to SICO's 6x8-foot module except for the depth. See page 7 for complete specifications.

SICO 3x8-foot Mobile Folding Chair Riser. Designed especially for seated groups, these 36" deep platforms accommodate chairs and still leave an aisle for walking. Platforms are available in standard heights of 8", 16", 24" and 32". Even though SICO Chair Risers are not equipped with the Dual-Height feature you can still achieve height adjustability by using SICO Scaffolding. See page 7 for complete specifications.

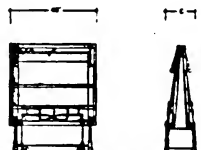
6'x8' Dual Height models
(1829mm)x(2438mm)

Model No.	A	B	C
1802-624	16" to 24" (406 mm to 610 mm)	60" (1524 mm)	17" (432 mm)
1802-632	24" to 32" (610 mm to 813 mm)	68" (1727 mm)	17" (432 mm)
1802-640	32" to 40" (813 mm to 1016 mm)	76" (1930 mm)	21" (533 mm)

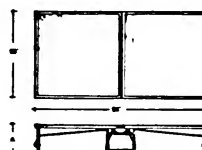
6'x8' Single Height models
(1829mm)x(2438mm)

Model No.	A	B	C
1801-608	8" (203 mm)	52" (1321 mm)	16 1/2" (419 mm)
1801-616	16" (406 mm)	60" (1524 mm)	17" (432 mm)
1801-624	24" (610 mm)	68" (1727 mm)	17" (432 mm)
1801-632	32" (813 mm)	76" (1930 mm)	21" (533 mm)
1801-640	40" (1016 mm)	84" (2134 mm)	23" (584 mm)

May be used with SICO Scaffolding

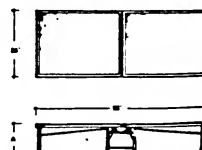
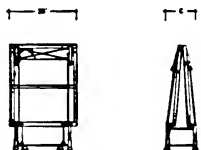
4'x8' Dual Height models
(1219mm)x(2438mm)

Model No.	A	B	C
1802-424	16" to 24" (406 mm to 610 mm)	60" (1524 mm)	17" (432 mm)
1802-432	24" to 32" (610 mm to 813 mm)	68" (1727 mm)	17" (432 mm)
1802-440	32" to 40" (813 mm to 1016 mm)	76" (1930 mm)	21" (533 mm)

4'x8' Single Height models
(1219mm)x(2438mm)

Model No.	A	B	C
1801-408	8" (203 mm)	52" (1321 mm)	16 1/2" (419 mm)
1801-416	16" (406 mm)	60" (1524 mm)	17" (432 mm)
1801-424	24" (610 mm)	68" (1727 mm)	17" (432 mm)
1801-432	32" (813 mm)	76" (1930 mm)	21" (533 mm)
1801-440	40" (1016 mm)	84" (2134 mm)	23" (584 mm)

May be used with SICO Scaffolding

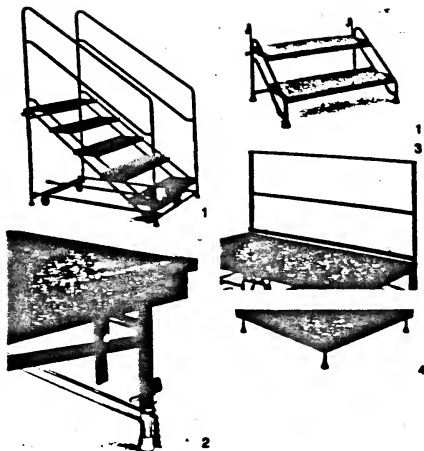
3'x8' Single Height models only
(814mm)x(2438mm)

Model No.	A	B	C
1801-308	8" (203 mm)	52" (1321 mm)	16 1/2" (419 mm)
1801-316	16" (406 mm)	60" (1524 mm)	17" (432 mm)
1801-324	24" (610 mm)	68" (1727 mm)	17" (432 mm)
1801-332	32" (813 mm)	76" (1930 mm)	23" (584 mm)

May be used with SICO Scaffolding

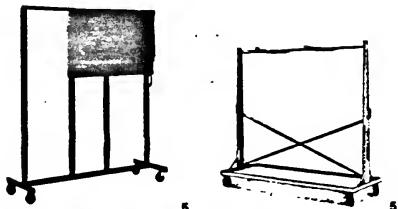
System Components

- (1) **Stage Steps:** Choose from 1 to 5 step models for stages from 16" to 48" high. Steps 32" or higher (4 and 5 step models are furnished with side rails and built-in caddy). Tread surfaces are 35" long, 12" deep.
- (2) **Chair/Table Stop:** Steel angle bars attach quickly to the outside edges of SICO stages and rest one-half inch above the surface of the stage deck. Prevents tables and chairs from being accidentally pushed over the edge.
- (3) **Guard Rails:** This added safety feature is available for use with all SICO stages and risers. These guard rails attach quickly and securely to the lower edge of the decking and to the unit framework. Available in 36", 48", 72" or 96" lengths.
- (4) **Corner Section:** This 8" high 90° corner section gives a finished circular appearance to Band or Chorus Risers. Use it with either a stage or riser assembly.
- (5) **SICO Trucks:** Rugged trucks for transporting and storing drapes, guard rails, and chair stops. Push-pull handle and four swivel casters for complete mobility.

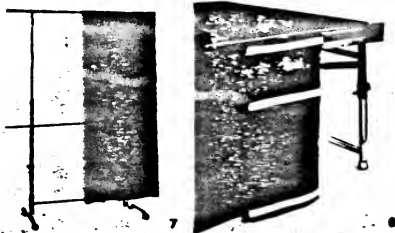
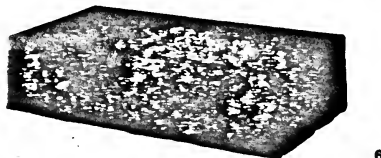


SICO Brings Aesthetics to Staging

- (6) **Draperies:** No stage is complete without the finishing touch that draperies add. Velcro fasteners make them fully adjustable in length . . . they change height with the stage! And Velcro also makes them extra-easy to attach and remove. SICO-supplied draperies are made of attractive flame-retardant fabric which retains its beauty over the years. They match companion SICO backdrop draperies. Choose from more than a dozen colors, or supply us with your drapery material and we will custom-fit draperies to your stage sizes.
- (7) **Stage Backdrops:** When you want to add a finishing touch, accent the aesthetic, or shield the performers until curtain-time . . . a SICO backdrop is the practical solution. They give the unit a very finished, professional look. (See Theatrical Stage on page 5 as an example of how backdrops may be utilized.)



Carpeting: SICO stages can be ordered with decks of beautiful, long-wearing carpeting in lieu of the standard textured vinyl-asbestos tile. It adds a special touch of elegance as well as allowing you to totally color coordinate your stage with existing decor. Choose from a dozen attractive colors, or if you prefer, you may supply us with your own special carpeting and we will install it to your order.



The 1800 Series from SICO offers all the advantages of a mobile folding stage, plus the added simplicity and speed of built-in height adjustability. And it does it without tools, without scaffolding.

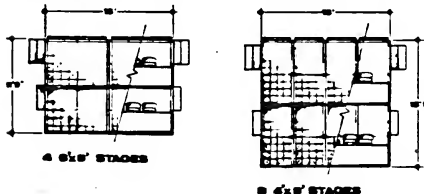
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And to make sure you're getting a stage system that meets your needs today, tomorrow, and for years to come, you can take advantage of a SICO space/use analysis of your own particular needs. It's performed by a SICO staging expert and it's yours free. (For specific details see page 7.)

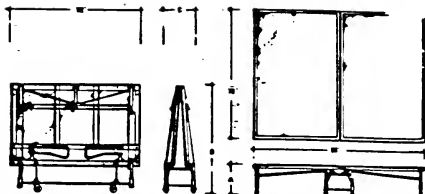
SICO's Mobile Folding 6x8-foot Dual-Height Stage ... the only one of its kind. SICO's exclusive 6-foot stage depth can result in a savings of labor and time during setup and takedown, as well as providing extra seating capacity. To illustrate how this happens let's take the example of a typical Head Table Riser.

Unlike the double rows of ordinary 4'x8' conventional stage sections available from other manufacturers, exclusive 6x8-foot SICO Stage Modules require exactly half the number of units which set up in about one-fourth the time. Why? Because this SICO 6-foot stage depth allows 30 inches for tables, 18 inches for chairs, plus 24 inches of serving space. Instead of a two-tier head table riser requiring 16 feet of total depth (using 4x8-foot units), SICO's 12-foot depth offers an extra 4 feet of floor space for additional tables and chairs in front of the riser. Another exclusive advantage SICO offers is the "gang lock" feature. It assures that all stage modules automatically lock together without special tools. From storage to set-up, it takes just a few minutes per module. See page 7 for complete specifications.



SICO 4x8-foot Mobile Folding Dual-Height Stage. This stage is identical in every respect to SICO's 6x8-foot module except for the depth. See page 7 for complete specifications.

SICO 3x8-foot Mobile Folding Chair Riser. Designed especially for seated groups, these 36" deep platforms accommodate chairs and still leave an aisle for walking. Platforms are available in standard heights of 8", 16", 24" and 32". Even though SICO Chair Risers are not equipped with the Dual-Height feature you can still achieve height adjustability by using SICO Scaffolding. See page 7 for complete specifications.



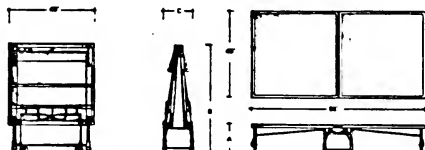
6'x8' Dual Height models
(1829mm)x(2438mm)

Model No.	A	B	C
1802-624	16" to 24" (406 mm to 610 mm)	60" (1524 mm)	17" (432 mm)
1802-632	24" to 32" (610 mm to 813 mm)	68" (1727 mm)	17" (432 mm)
1802-640	32" to 40" (813 mm to 1016 mm)	76" (1930 mm)	21" (533 mm)

6'x8' Single Height models
(1829mm)x(2438mm)

Model No.	A	B	C
1801-606	8" (203 mm)	52" (1321 mm)	16 1/2" (419 mm)
1801-616	16" (406 mm)	60" (1524 mm)	17" (432 mm)
1801-624	24" (610 mm)	68" (1727 mm)	17" (432 mm)
1801-632	32" (813 mm)	76" (1930 mm)	21" (533 mm)
1801-640	40" (1016 mm)	84" (2134 mm)	23" (584 mm)

May be used with SICO Scaffolding



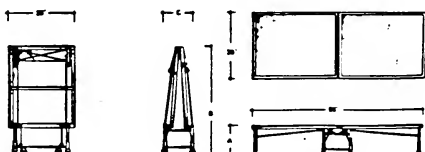
4'x8' Dual Height models
(1219mm)x(2438mm)

Model No.	A	B	C
1802-424	16" to 24" (406 mm to 610 mm)	60" (1524 mm)	17" (432 mm)
1802-432	24" to 32" (610 mm to 813 mm)	68" (1727 mm)	17" (432 mm)
1802-440	32" to 40" (813 mm to 1016 mm)	76" (1930 mm)	21" (533 mm)

4'x8' Single Height models
(1219mm)x(2438mm)

Model No.	A	B	C
1801-406	8" (203 mm)	52" (1321 mm)	16 1/2" (419 mm)
1801-416	16" (406 mm)	60" (1524 mm)	17" (432 mm)
1801-424	24" (610 mm)	68" (1727 mm)	17" (432 mm)
1801-432	32" (813 mm)	76" (1930 mm)	21" (533 mm)
1801-440	40" (1016 mm)	84" (2134 mm)	23" (584 mm)

May be used with SICO Scaffolding



3'x8' Single Height models only
(914mm)x(2438mm)

Model No.	A	B	C
1801-306	8" (203 mm)	52" (1321 mm)	16 1/2" (419 mm)
1801-316	16" (406 mm)	60" (1524 mm)	17" (432 mm)
1801-324	24" (610 mm)	68" (1727 mm)	17" (432 mm)
1801-332	32" (813 mm)	76" (1930 mm)	23" (584 mm)

May be used with SICO Scaffolding

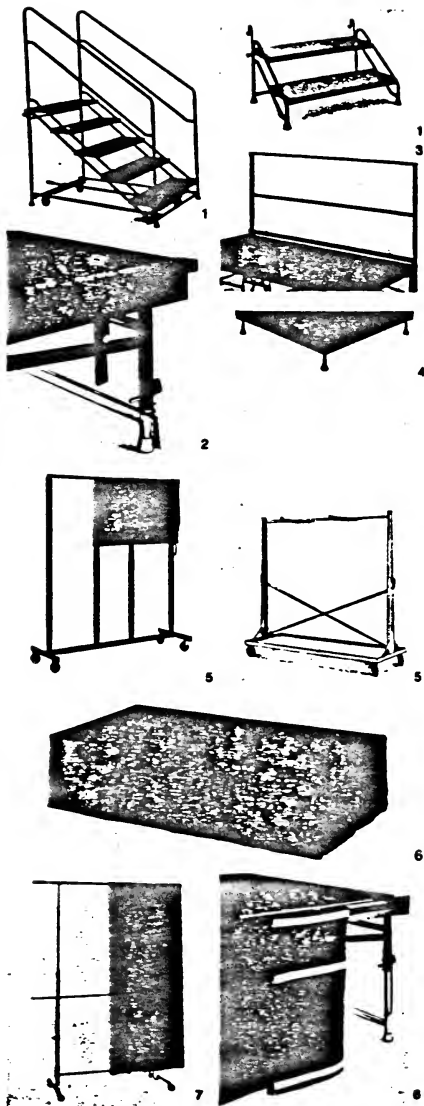
System Components

- (1) **Stage Steps:** Choose from 1 to 5 step models for stages from 16" to 48" high. Steps 32" or higher (4 and 5 step models are furnished with side rails and built-in caddy). Tread surfaces are 35" long, 12" deep.
- (2) **Chair/Table Stop:** Steel angle bars attach quickly to the outside edges of SICO stages and rest one-half inch above the surface of the stage deck. Prevents tables and chairs from being accidentally pushed over the edge.
- (3) **Guard Rails:** This added safety feature is available for use with all SICO stages and risers. These guard rails attach quickly and securely to the lower edge of the decking and to the unit framework. Available in 36", 48", 72" or 96" lengths.
- (4) **Corner Section:** This 8" high 90° corner section gives a finished circular appearance to Band or Chorus Risers. Use it with either a stage or riser assembly.
- (5) **SICO Trucks:** Rugged trucks for transporting and storing drapes, guard rails, and chair stops. Push-pull handle and four swivel casters for complete mobility.

SICO Brings Aesthetics to Staging

- (6) **Draperies:** No stage is complete without the finishing touch that draperies add. Velcro fasteners make them fully adjustable in length . . . they change height with the stage! And Velcro also makes them extra-easy to attach and remove. SICO-supplied draperies are made of attractive flame-retardant fabric which retains its beauty over the years. They match companion SICO backdrop draperies. Choose from more than a dozen colors, or supply us with your drapery material and we will custom-fit draperies to your stage sizes.
- (7) **Stage Backdrops:** When you want to add a finishing touch, accent the aesthetic, or shield the performers until curtain-time . . . a SICO backdrop is the practical solution. They give the unit a very finished, professional look. (See Theatrical Stage on page 5 as an example of how backdrops may be utilized.)

Carpeting: SICO stages can be ordered with decks of beautiful, long-wearing carpeting in lieu of the standard textured vinyl-asbestos tile. It adds a special touch of elegance as well as allowing you to totally coordinate your stage with existing decor. Choose from a dozen attractive colors, or if you prefer, you may supply us with your own special carpeting and we will install it to your order.



FOLDING TABLES

MP-8

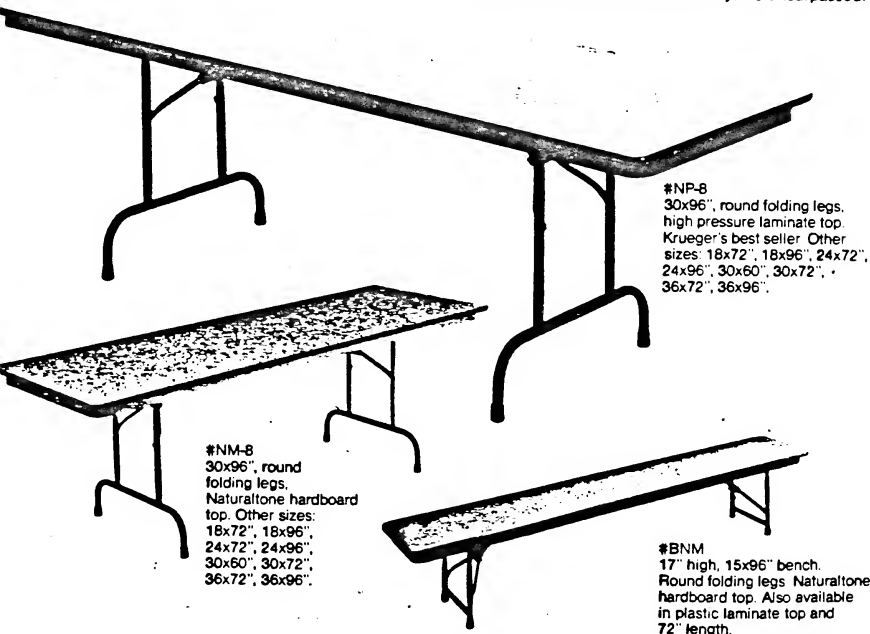
**Best-selling line of folding tables
... largest array of models available**

Sturdy construction and durability make these the most popular all-purpose folding tables and benches on the market. Year after year, Krueger manufactures and sells more folding tables than any other single source in the country. And Krueger offers one of the largest selections of styles available in the popular price field.

Leg sections are seam-welded tubular steel. To assure long service, they are unit-welded for strength under strenuous use. Chip-resistant enamel in an array of colors plus select models in chrome.

Table tops are sturdy, lightweight cellular core construction, supported by a strong steel perimeter apron. Surfaces are available in economical Naturaltone hardboard or handsome melamine, high-pressure laminate. The melamine surface is $\frac{1}{2}$ " thick and has been chosen for its resistance to stain, heat, burns and boiling liquids. An equally wide array of edge treatments harmonize or contrast with table surfaces.

Nowonder Krueger has the best-selling folding table line in the country. For value and variety, it's unsurpassed!



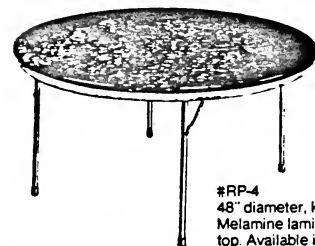
#NP-8
30x96", round folding legs,
high pressure laminate top.
Krueger's best seller. Other
sizes: 18x72", 18x96", 24x72",
24x96", 30x60", 30x72",
36x72", 36x96".

#NM-8
30x96", round
folding legs,
Naturaltone hardboard
top. Other sizes:
18x72", 18x96",
24x72", 24x96",
30x60", 30x72",
36x72", 36x96".

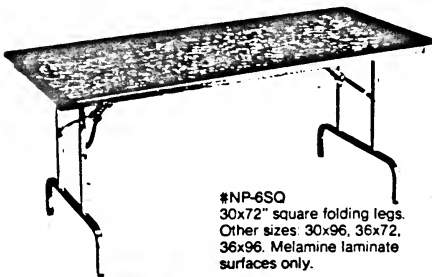
#BNM
17" high, 15x96" bench.
Round folding legs. Naturaltone
hardboard top. Also available
in plastic laminate top and
72" length.



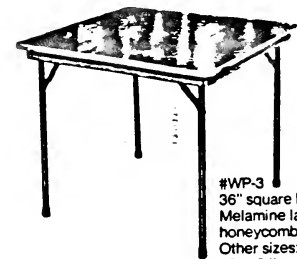
#NM-6A
30x72" adjustable height table.
Top heights from 23 1/4 to 34 1/2".
Naturaltone hardboard top.
Other sizes: 30x96,
36x72, 36x96.



#RP-4
48" diameter, knifelock legs.
Melamine laminate solid core
top. Available in 60" diameter.



#NP-6SQ
30x72" square folding legs.
Other sizes: 30x96, 36x72,
36x96. Melamine laminate
surfaces only.



#WP-3
36" square knifelock legs.
Melamine laminate
honeycomb core top.
Other sizes: 24x36 (solid core),
30x48 (honeycomb core).

TOPS

Rectangular and Square Tables (except 24 x 36"): Honeycomb cellular core (A) high-density particleboard frame. "P" Plastic Surfaces are 1/2" thick with vinyl bullnose edge (B) or T-edge (C). Simulated woodgrain top surfaces are 1/2" high-pressure melamine laminate; .045" high-pressure melamine backing sheet. "M" Naturaltone Surfaces are 1/2" thick with vinyl bullnose edge (B). Hardboard top and bottom. Round and 24 x 36" Utility Tables: High-density particleboard core. "P" Plastic Surfaces are 1/2" thick with vinyl bullnose edge (B) or T-edge (C). Simulated woodgrain top surfaces are 1/2" high-pressure melamine laminate; 1/2" Gator-ply backing sheet. "M" Naturaltone Surfaces (Round only) are 1/2" thick with vinyl bullnose edge (B). Hardboard top and bottom.

Benches: High-density particleboard core, 1/2" thick, with vinyl bullnose edge (B). .030" high-pressure melamine top.

FRAMES & LEGS

Apron: Heavy-gauge channel steel, welded for one-piece frame.

Legs: 18-ga. 1 1/4" o.d. seam-welded tubular steel legs, top hinge 20-ga. Double leg braces and gravity lock of flat steel.

Finish: Electrostatically spray-painted non-chipping alkyl urea baked-on enamel. Some models in bright duplex nickel chrome legs.

Round Folding Leg Tables: Nonmarring Super Dylan feet. 29" high.

Square Folding Leg Tables: Same construction as above except legs are 1/2" sq. tubing with self-leveling steel glides. 29" high.

Adjustable Height Folding Leg Tables: Same as above. Adjustable height lock (D) of die-formed steel 1/2" o.d. tubing telescopes into 1" o.d. tubing of folding section. Adjust 23 1/4 to 34 1/2" high in 1" increments.

Knifelock Folding Utility Tables: Knifelock of die-formed steel. Nonmarring Super Dylan feet. 29" high. Available in nonstandard heights.

Round Knifelock Folding Tables: Same construction as Utility Tables. 4" model has round apron, legs fold in pairs. 5" model has square apron, legs fold in pairs.

Folding Benches: 18-ga. 1" o.d. seam-welded round steel tubing. Same gravity lock system as on Round Folding Leg Tables. Legs fold in pairs. Nonmarring Super Dylan feet. 17" high.

Separate Leg Assemblies: Available in round, square or adjustable height pedestal styles. For table sizes minimum 60" long and 30" or 36" wide. Includes all hardware necessary to complete one table.



Seating Capacities	Inst. Seating 24"/Seat	Comfort Seating 30"/Seat	Seating Capacities	Inst. Seating 24"/Seat	Comfort Seating 30"/Seat
18 x 72	6	4	30 x 72	8	6
18 x 96	8	6	30 x 96	10	8
24 x 36	4	2	36 x 36	4	4
24 x 72	8	4	36 x 72	8	6
24 x 96	10	6	36 x 96	10	8
30 x 48	6	4	48 dia.	6	5
30 x 60	6	6	60 dia.	8	6

FOLDING TABLES

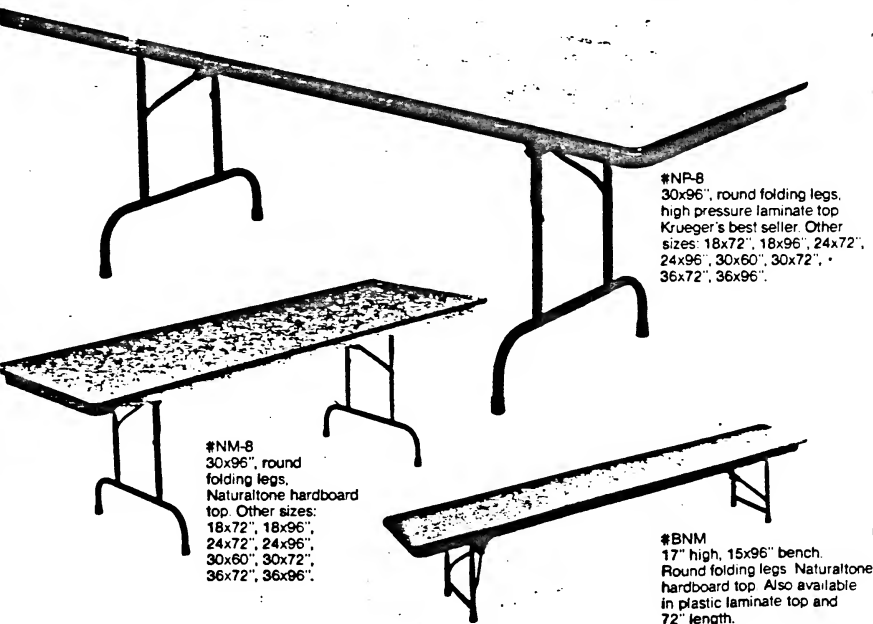
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Table tops are sturdy, lightweight cellular core construction, supported by a strong steel perimeter apron. Surfaces are available in economical Naturaltone hardboard or handsome melamine, high-pressure laminate. The melamine surface is $\frac{1}{2}$ " thick and has been chosen for its resistance to stain, heat, burns and boiling liquids. An equally wide array of edge treatments harmonize or contrast with table surfaces.

No wonder Krueger has the best-selling folding table line in the country. For value and variety, it's unsurpassed!



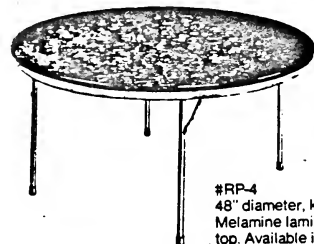
#NP-8
30x96", round folding legs,
high pressure laminate top
Krueger's best seller. Other
sizes: 18x72", 18x96", 24x72",
24x96", 30x60", 30x72",
36x72", 36x96".

#NM-8
30x96", round
folding legs,
Naturaltone hardboard
top. Other sizes:
18x72", 18x96",
24x72", 24x96",
30x60", 30x72",
36x72", 36x96".

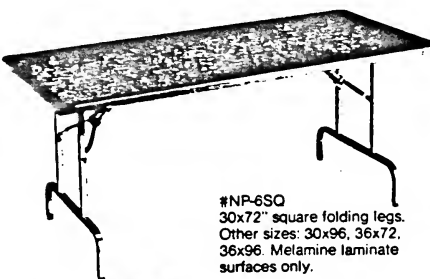
#BNM
17" high, 15x96" bench.
Round folding legs. Naturaltone
hardboard top. Also available
in plastic laminate top and
72" length.



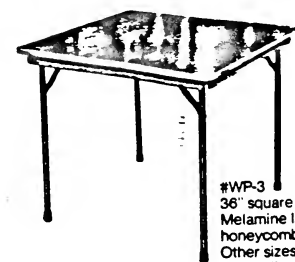
#NM-6A
30x72" adjustable height table.
Top heights from 23 1/2" to 34 1/2".
Natura-tone hardboard top.
Other sizes: 30x96,
36x72, 36x96.



#RP-4
48" diameter, knifelock legs.
Melamine laminate solid core
top. Available in 60" diameter.



#NP-6SQ
36"x72" square folding legs.
Other sizes: 30x96, 36x72,
36x96. Melamine laminate
surfaces only.



#WP-3
36" square knifelock legs.
Melamine laminate
honeycomb core top.
Other sizes: 24x36 (solid core),
30x48 (honeycomb core).

TOPS

Rectangular and Square Tables (except 24 x 36"): Honeycomb cellular core (A) high-density particleboard frame. "P" Plastic Surfaces are 1/2" thick with vinyl bullnose edge (B) or T-edge (C). Simulated woodgrain top surfaces are 1/2" high-pressure melamine laminate; .045" high-pressure laminate backing sheet. "M" Natura-tone Surfaces are 1/2" thick with vinyl bullnose edge (B). Hardboard top and bottom. Round and 24 x 36" Utility Tables: High-density particleboard core. "P" Plastic Surfaces are 1/2" thick with vinyl bullnose edge (B) or T-edge (C). Simulated woodgrain top surfaces are 1/2" high-pressure melamine laminate; 1/2" Gator-ply backing sheet. "M" Natura-tone Surfaces (Round only) are 1/2" thick with vinyl bullnose edge (B). Hardboard top and bottom.

Benches: High-density particleboard core, 1/2" thick, with vinyl bullnose edge (B). .030" high-pressure melamine top.

FRAMES & LEGS

Apron: Heavy-gauge channel steel, welded for one-piece frame.

Legs: 18-ga. 1 1/2" o.d. seam-welded tubular steel legs, top hinge 20-ga. Double leg braces and gravity lock of flat steel.

Finish: Electrostatically spray-painted non-chipping alkyd urea baked-on enamel. Some models in bright duplex nickel chrome legs.

Round Folding Leg Tables: Nonmarring Super Dylan feet. 29" high.

Square Folding Leg Tables: Same construction as above except legs are 1/2" sq. tubing with self-leveling steel glides. 29" high.

Adjustable Height Folding Leg Tables: Same as above. Adjustable height lock (D) of die-formed steel 1/2" o.d. tubing telescopes into 1" o.d. tubing of folding section. Adjust 23 1/2" to 34 1/2" high in 1" increments.

Knifelock Folding Utility Tables: Knifelock of die-formed steel. Nonmarring Super Dylan feet. 29" high. Available in nonstandard heights.

Round Knifelock Folding Tables: Same construction as Utility Tables 4' model has round apron, legs fold in pairs.

Folding Benches: 18-ga. 1" o.d. seam-welded round steel tubing. Same gravity lock system as on Round Folding Leg Tables. Legs fold in pairs. Nonmarring Super Dylan feet. 17" high.

Separate Leg Assemblies: Available in round, square or adjustable height pedestal styles. For table sizes minimum 60" long and 30" or 36" wide. Includes all hardware necessary to complete one table.



Seating Capacities	Inst. Seating 24"/Seat	Comfort Seating 30"/Seat	Seating Capacities	Inst. Seating 24"/Seat	Comfort Seating 30"/Seat
18 x 72	6	4	30 x 72	8	6
18 x 96	8	6	30 x 96	10	8
24 x 36	4	2	36 x 36	4	4
24 x 72	8	4	36 x 72	8	6
24 x 96	10	6	36 x 96	10	8
30 x 48	6	4	48 dia.	6	5
30 x 60	6	6	60 dia.	8	6

FOLDING TABLES

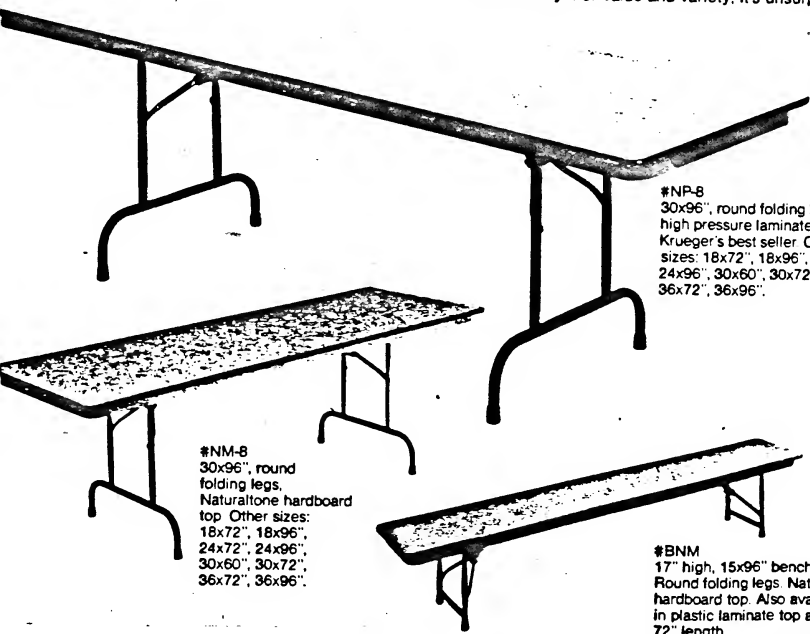
**Best-selling line of folding tables
... largest array of models available**

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Leg sections are seam-welded tubular steel. To assure long service, they are unit-welded for strength under strenuous use. Chip-resistant enamel in an array of colors plus select models in chrome.

Table tops are sturdy, lightweight cellular core construction, supported by a strong steel perimeter apron. Surfaces are available in economical Naturaltone hardboard or handsome melamine, high-pressure laminate. The melamine surface is $\frac{1}{2}$ " thick and has been chosen for its resistance to stain, heat, burns and boiling liquids. An equally wide array of edge treatments harmonize or contrast with table surfaces.

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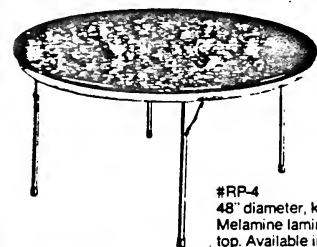
#NP-8
30x96", round folding legs,
high pressure laminate top
Krueger's best seller. Other
sizes: 18x72", 18x96", 24x72",
24x96", 30x60", 30x72",
36x72", 36x96".

#NM-8
30x96", round
folding legs,
Naturaltone hardboard
top. Other sizes:
18x72", 18x96",
24x72", 24x96",
30x60", 30x72",
36x72", 36x96".

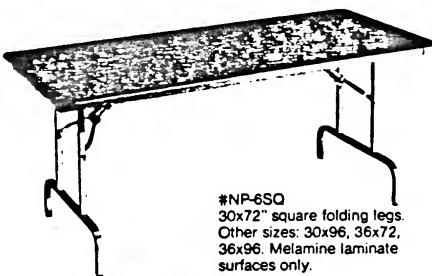
#BNM
17" high, 15x96" bench.
Round folding legs. Naturaltone
hardboard top. Also available
in plastic laminate top and
72" length.



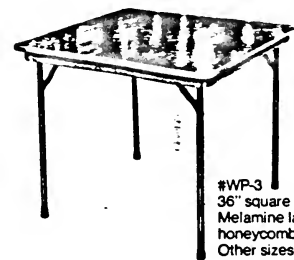
#NM-6A
30x72" adjustable height table.
Top heights from 23 1/4 to 34 1/2".
Naturaltone hardboard top.
Other sizes: 30x96,
36x72, 36x96.



#RP-4
48" diameter, knifelock legs.
Melamine laminate solid core
top. Available in 60" diameter.



#NP-6SQ
30x72" square folding legs.
Other sizes: 30x96, 36x72,
36x96. Melamine laminate
surfaces only.



#WP-3
36" square knifelock legs.
Melamine laminate
honeycomb core top.
Other sizes: 24x36 (solid core),
30x48 (honeycomb core).

TOPS

Rectangular and Square Tables (except 24 x 36"): Honeycomb cellular core (A) high-density particleboard frame "P" Plastic Surfaces are 1/2" thick with vinyl bullnose edge (B) or T-edge (C). Simulated woodgrain top surfaces are 1/2" high-pressure melamine laminate, .045" high-pressure laminate backing sheet. "M" Naturaltone Surfaces are 1/2" thick with vinyl bullnose edge (B). Hardboard top and bottom. Round and 24 x 36" Utility Tables: High-density particleboard core "P" Plastic Surfaces are 1/2" thick with vinyl bullnose edge (B) or T-edge (C). Simulated woodgrain top surfaces are 1/2" high-pressure melamine laminate, 1/2" Gator-ply backing sheet. "M" Naturaltone Surfaces (Round only) are 1/2" thick with vinyl bullnose edge (B). Hardboard top and bottom.

Benches: High-density particleboard core, 1/2" thick, with vinyl bullnose edge (B). .030" high-pressure melamine top.

FRAMES & LEGS

Apron: Heavy-gauge channel steel, welded for one-piece frame.

Legs: 18-ga. 1 1/2" o.d. seam-welded tubular steel legs, top hinge 20-ga. Double leg braces and gravity lock of flat steel.

Finish: Electrostatically spray-painted non-chipping alkylid urea baked-on enamel. Some models in bright duplex nickel chrome legs.

Round Folding Leg Tables: Nonmarring Super Dytan feet. 29" high.

Square Folding Leg Tables: Same construction as above except legs are 1/2" sq. tubing with self-leveling steel glides. 29" high.

Adjustable Height Folding Leg Tables: Same as above. Adjustable height lock (D) of die-formed steel 1/2" o.d. tubing telescopes into 1" o.d. tubing of folding section. Adjust 23 1/4 to 34 1/2" high in 1" increments.

Knifelock Folding Utility Tables: Knifelock of die-formed steel. Nonmarring Super Dytan feet. 29" high. Available in nonstandard heights.

Round Knifelock Folding Tables: Same construction as Utility Tables. 4" model has round apron, legs fold in pairs. 5" model has square apron, legs fold in pairs.

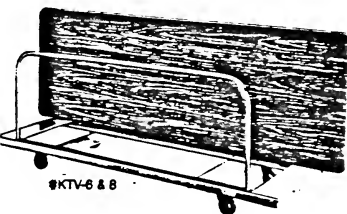
Folding Benches: 18-ga. 1" o.d. seam-welded round steel tubing. Same gravity lock system as on Round Folding Leg Tables. Legs fold in pairs. Nonmarring Super Dytan feet. 17" high.

Separate Leg Assemblies: Available in round, square or adjustable height pedestal styles. For table sizes minimum 60" long and 30" or 36" wide. Includes all hardware necessary to complete one table.



Seating Capacities	Inst. Seating 24"/Seat	Comfort Seating 30"/Seat	Seating Capacities	Inst. Seating 24"/Seat	Comfort Seating 30"/Seat
18 x 72	6	4	30 x 72	8	6
18 x 96	8	6	30 x 96	10	8
24 x 36	4	2	36 x 36	4	4
24 x 72	6	4	36 x 72	8	6
24 x 96	10	6	36 x 96	10	8
30 x 48	6	4	48 dia.	6	5
30 x 60	6	6	60 dia.	8	6

TABLE CADDIES



**Rugged caddies
for vertical or
horizontal storage**

Speeds set-up and storage of folding tables. All models feature Chan-Angle heavy-gauge steel bed construction. Optional extras include brake kits and nonskid 3M Scotch-Tred to prevent tables from sliding.

Specifications

KTV and KTH. 16-ga 1½" x 4½" angle steel side members electrically welded to 2½" x 7" channel steel cross members. 4" roller bearing wheels, 2 fixed, 2 swivel. 4 swivel optional.

KTR-9. 16-ga 1 x 2" tubular steel base frame welded together. Ends of 18-ga 1½" o.d. tubular steel welded to steel brackets which also serve as post sockets. Unit bolts together. End posts are 18-ga 1½" dia. tubular steel. Side and end posts removable for stacking empty trucks. 5" roller bearing wheels, 2 fixed, 2 swivel. 4 swivel optional.

Finish: Electrostatically spray-painted nonchipping alkyl urea baked-on enamel.

SIZES/CAPACITIES

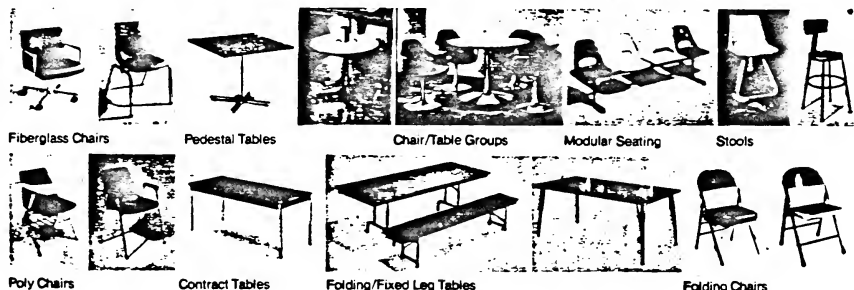
KTV-6 & 8: 78" long, 26½" wide and 28½" high. Stacks either 6 or 8 long tables on edge. Stores up to 9 tables depending on thickness.

KTH-6: 78" long, 26½" wide and 32" high. Stacks 6 long tables horizontally, up to 12 tables high, depending on table thickness.

KTH-8: 99½" long, 26½" wide and 32" high. Stacks 8 long tables horizontally, up to 12 tables high, depending on table thickness.

KTR-9: 48½" long, 32½" wide and 44½" high. Stacks 4' or 5' round tables on edge. Stores up to 8 tables, depending on thickness.

and, Krueger has more furniture for your needs . . . write for catalog



Fiberglass Chairs

Pedestal Tables

Chair/Table Groups

Modular Seating

Stools

Poly Chairs

Contract Tables

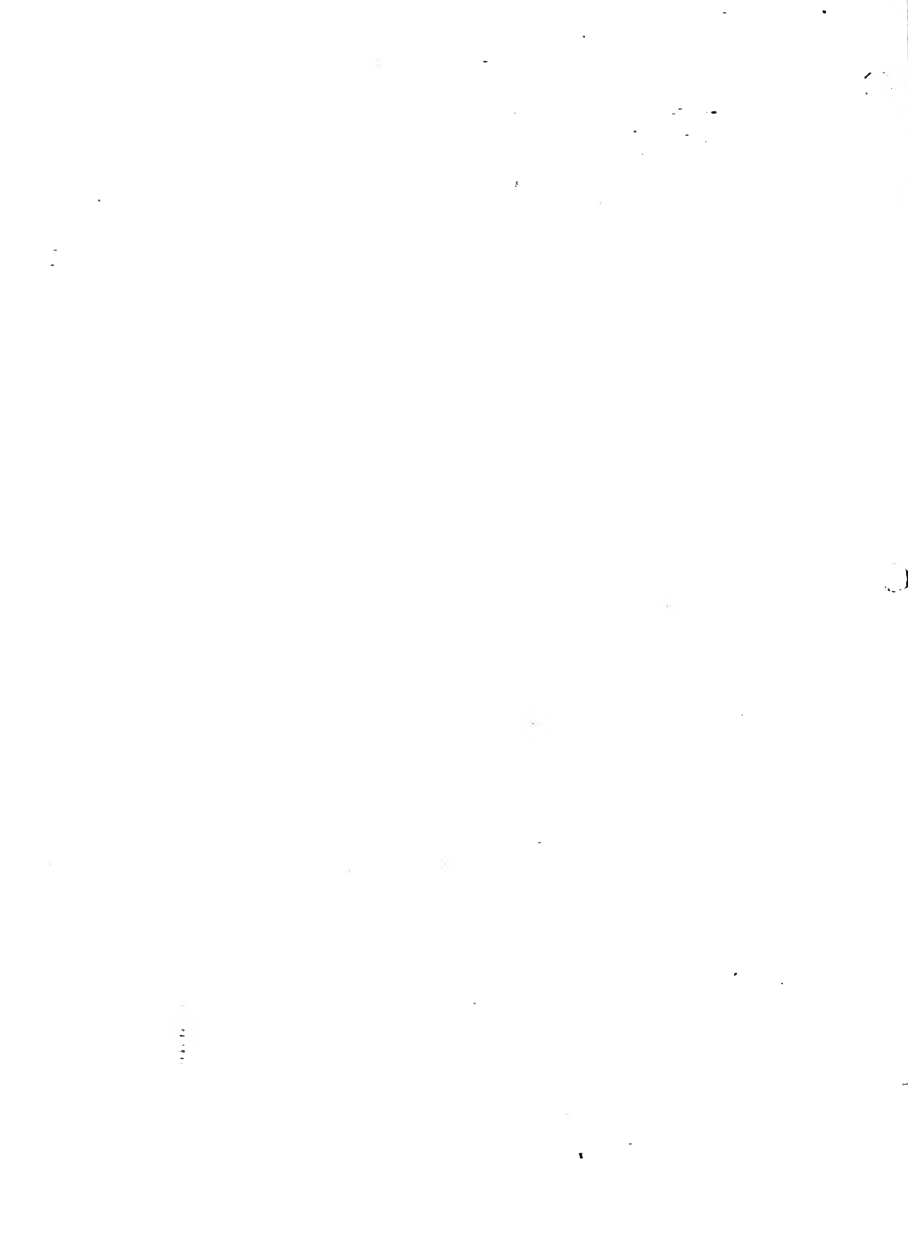
Folding/Fixed Leg Tables

Folding Chairs

krueger

P.O. Box 8100
Green Bay, WI 54308
414/468-8100

Litho in USA Code 3012/SP15M280



FOLDING TABLES

MP 12

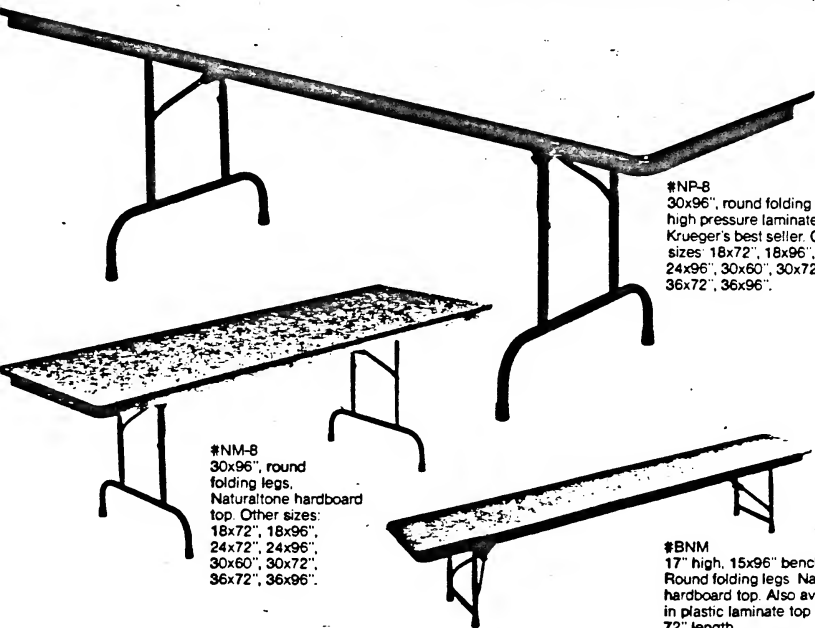
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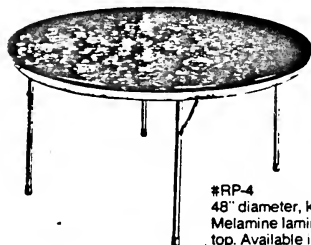
#NP-8
30x96", round folding legs,
high pressure laminate top.
Krueger's best seller. Other
sizes: 18x72", 18x96", 24x72",
24x96", 30x60", 30x72",
36x72", 36x96".

#NM-8
30x96", round
folding legs,
Naturaltone hardboard
top. Other sizes:
18x72", 18x96",
24x72", 24x96",
30x60", 30x72",
36x72", 36x96".

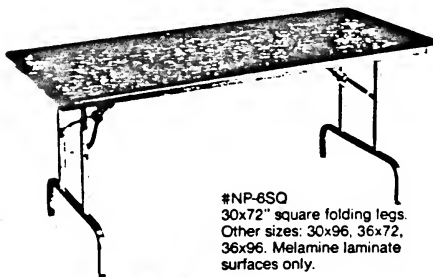
#BNM
17" high, 15x96" bench.
Round folding legs. Naturaltone
hardboard top. Also available
in plastic laminate top and
72" length.



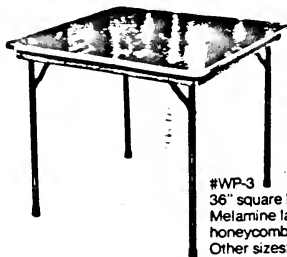
#NM-6A
30x72" adjustable height table.
Top heights from 23 1/2" to 34 1/2".
Naturaltone hardboard top.
Other sizes: 30x96,
36x72, 36x96.



#RP-4
48" diameter, knifelock legs.
Melamine laminate solid core
top. Available in 60" diameter.



#NP-6SQ
30x72" square folding legs.
Other sizes: 30x96, 36x72,
36x96. Melamine laminate
surfaces only.



#WP-3
36" square knifelock legs.
Melamine laminate
honeycomb core top.
Other sizes: 24 x 36 (solid core),
30 x 48 (honeycomb core).

TOPS

Rectangular and Square Tables (except 24 x 36"): Honeycomb cellular core (A) high-density particleboard frame. "P" Plastic Surfaces are 3/8" thick with vinyl bullnose edge (B) or T-edge (C). Simulated woodgrain top surfaces are 1/2" high-pressure melamine laminate; .045" high-pressure melamine backing sheet. "M" Naturaltone Surfaces are 3/8" thick with vinyl bullnose edge (B). Hardboard top and bottom. Round and 24 x 36" Utility Tables: High-density particleboard core. "P" Plastic Surfaces are 3/8" thick with vinyl bullnose edge (B) or T-edge (C). Simulated woodgrain top surfaces are 1/2" high-pressure melamine laminate; 1/2" Gator-ply backing sheet. "M" Naturaltone Surfaces (Round only) are 3/8" thick with vinyl bullnose edge (B). Hardboard top and bottom.

Benches: High-density particleboard core, 3/4" thick, with vinyl bullnose edge (B). .030" high-pressure melamine top.

FRAMES & LEGS

Apron: Heavy-gauge channel steel, welded for one-piece frame.

Legs: 18-ga 1 1/2" o.d. seam-welded tubular steel legs, top hinge 20-ga Double leg braces and gravity lock of flat steel.

Finish: Electrostatically spray-painted non-chipping alkyd urea baked-on enamel. Some models in bright duplex nickel chrome legs. **Round Folding Leg Tables:** Nonmarring Super Dylan feet. 29" high.

Square Folding Leg Tables: Same construction as above except legs are 1/2" sq tubing with self-leveling steel glides. 29" high.

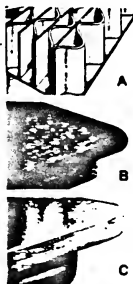
Adjustable Height Folding Leg Tables: Same as above. Adjustable height lock (D) of die-formed steel, 1/2" o.d. tubing telescopes into 1" o.d. tubing of folding section. Adjust 23 1/2" to 34 1/2" high in 1" increments.

Knifelock Folding Utility Tables: Knifelock of die-formed steel. Nonmarring Super Dylan feet. 29" high. Available in nonstandard heights.

Round Knifelock Folding Tables: Same construction as Utility Tables. 4" model has round apron, legs fold in pairs. 5" model has square apron, legs fold in pairs.

Folding Benches: 18-ga. 1" o.d. seam-welded round steel tubing. Same gravity lock system as on Round Folding Leg Tables. Legs fold in pairs. Nonmarring Super Dylan feet. 17" high.

Separate Leg Assemblies: Available in round, square or adjustable height pedestal styles. For table sizes minimum 60" long and 30" or 36" wide. Includes all hardware necessary to complete one table.



Seating Capacities	Inst. Seating 24"/Seat	Comfort Seating 30"/Seat	Seating Capacities	Inst. Seating 24"/Seat	Comfort Seating 30"/Seat
18 x 72	6	4	30 x 72	8	6
18 x 96	8	6	30 x 96	10	8
24 x 36	4	2	36 x 36	4	4
24 x 72	8	4	36 x 72	8	6
24 x 96	10	6	36 x 96	10	8
30 x 48	6	4	48 dia.	6	5
30 x 60	8	6	60 dia.	8	6

Strength and durability where it counts.

The big difference that sets Howe tables apart from all others is engineering—construction that *builds in strength*, where it means the most. For example, when a Howe 200 Series table is dropped on its legs hard against the floor, it's the understructure—not the table top—that absorbs the shock.

The all-steel chassis is riveted and welded. Forged angle-iron rails run the full length of the unit. Cross rails provide added support. Heavy-gauge, tubular steel legs are rock-steady under all conditions.

Special corner braces reinforce Howe folding tables to withstand constant wrenching, twisting and folding.

200 Series folding tables also have smooth metal glide legcaps to protect floor surfaces and carpeting.

Stacking plates are provided on most models to prevent damage to tops when storing.

Table Tops

Three surface materials are available.

Plywood is the standard table top when linen is used. Howe plywood tops are coated with a protective walnut stain to resist scratching. Only Grade AC, fine-quality, $\frac{3}{4}$ " or $\frac{1}{2}$ " (depending on the size) Douglas Fir plywood is used. Edges are protected by riveted aluminum flush or crimped channel molding.

Plastic laminate tops resist stains and cut cleanup time. Available in textured oak, walnut, teak and antique white. The protective trim-molding is square, black vinyl or channel aluminum. The laminate is .050" thick, textured plastic bordered permanently to, depending on size, $\frac{3}{4}$ " or $\frac{1}{2}$ " particleboard conforming to commercial standards CS 23-66 Type 1 Grade B, Class 2.

Howfoam is a $\frac{1}{4}$ "-thick polyvinyl chloride pad. Depending on table size the pad is permanently bonded to either $\frac{3}{4}$ " or $\frac{1}{2}$ " Grade AC Douglas Fir plywood. Created especially for a "soft touch," it eliminates the need for flannel silencer cloths. Howfoam is impervious to butter, greases, food acids and alcohol. Howfoam also effectively cuts laundry costs, reduces set-up time and is fire-retardant.

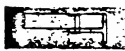


Table Edges

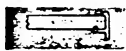
The edges are appropriate to the top material. Plywood tops, either an aluminum flush edge riveted to the top, or a channel aluminum edge, crimped securely to the top.

For plastic laminates, moldings are either channel aluminum, crimped, or flush black vinyl, bradded into place from the underside.

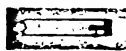
For Howfoam tops crimped channel aluminum edging is used.



Aluminum Flush Edge
Riveted to top



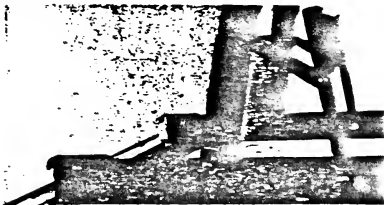
Channel Aluminum Edge
High pressure crimped to top



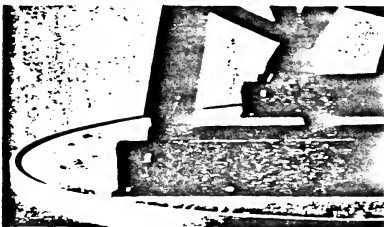
Black Vinyl Flush Edge
Bradded to top

Unique leg mechanisms permanently riveted to angle iron rails

1 1/2" square, 20-gauge tubular steel legs are riveted to long tubular angle-iron rails 1 1/2" x 1 1/2" x 1/8" thick. At each leg, 13-gauge elbow braces are riveted to the leg at one end and the angle iron rail at the other end. Each pair of elbow braces is joined by a locking bar to insure their moving in unison. An automatic lock welded to the leg stretcher insures the elbow braces remain in the past center position which means all stress and strain is absorbed by each individual leg.

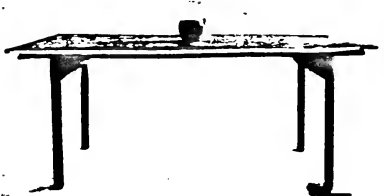


Note: On the 200 Series 30" and 36" square and 30" x 36", 42" and 48" round tables, the folding mechanism is single leg action at each corner. As with the paired action legs are elbow-braced, and braces are riveted to steel anchorage points for maximum stability. The specially shaped tables are paired or single leg action, depending on the model selected.



Flexible Frame & Top

The combination of Howe's unique steel understructure and light top provides carefully calculated flexibility so that even on surfaces that are as much as 2 cm ($\frac{3}{16}$ ") off level, legs remain steady, rigidly positioned and wobble free.



Howe 200 Series Rectangular Tables

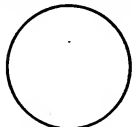


This is the staple standard table widely used in the banquet, meeting room, industry and also in classroom style—almost

essential equipment in the field. These tables have a performance rating you can virtually base a business on—they're that strong and dependable!

The rectangular table is historically Howe's first banquet model, used by the Waldorf-Astoria over 50 years ago and proving the incredible long-lasting service life and strong construction of these tables.

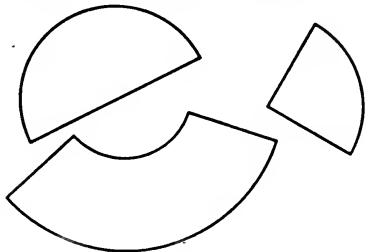
Howe 200 Series Round Tables



The classic round table suits most situations ideally. By providing more space for seating comfort and relaxed conversation than other arrangements, the round table meets banquet and meeting room requirements with just the right touch of tradition, night or day.

Howe makes the round table in seven sizes, including the larger 66" and 72" diameters preferred for the most elegant occasions.

200 Series Specially Shaped Tables



This versatile table group allows an endless choice of arrangements to suit any room size, seating plan or number of people. Howe's specially-shaped tables are a must equipment for busy banquet or meeting room operations with varied, ever-changing group functions.

Select from three basic shapes: Half-round, quarter-round and crescent—26 sizes in all! Combine shapes in limitless ways, with each other or with standard Howe rectangular and round folding tables.

HOWE 200 SERIES TABLES ARE AVAILABLE IN THESE SIZES:

Rectangles:	16" x 60", 72", 96", 24" x 48", 60", 72", 96", 30" x 48", 60", 72", 96", 36" x 48", 60", 72", 96"
Squares:	30" x 30", 36"
Rounds:	30", 36", 42", 48", 54", 60", 66", 72" dia
Special Shapes:	26 sizes available
Heights:	30", 29", 28", 24", 22" Unless specified on order, tables will be shipped 30" high

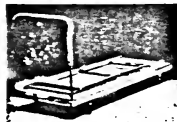
200 Series Table Trucks

The careful handling, transporting and storing of Howe 200 Series tables greatly prolongs their service life. To protect your investment in valuable equipment, three special-purpose heavy-duty Howe trucks are built to do just that.

Select the truck that suits your needs: flat-storage or edge-storage trucks for rectangular tables and a model in three sizes for round tables only. Each performs its special function efficiently and reliably.

Howe 200 Series table trucks have welded angle-iron frames and cross supports to carry the heaviest loads. All have removable handles of beige enamel steel tubing. Ease of mobility is provided by 4", hard rubber ball-bearing casters, (two fixed, two swivel), with an 800 lb. capacity.

Recommended for heavy-duty use on carpet or 800—2,000 pounds capacity are 6" diameter, vulcanized, tire-roller bearing casters (two fixed, two swivel).



Flat storage table truck holds 12-14 rectangular tables in 6 and 8 lengths. For tables up to 30" wide.



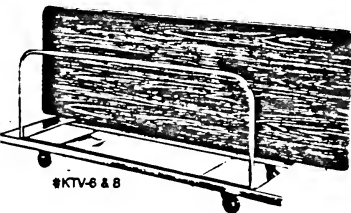
Edge storage table truck holds 8-10 rectangular tables. For tables over 30" wide in 6 and 8 lengths.



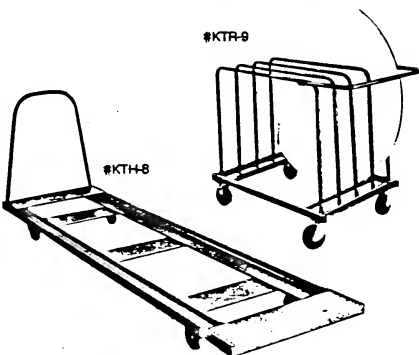
Round table in three sizes:
TRRT-5 holds 8-10 60" diameter round tables
TRRT-6 holds 8-10 66"-72" diameter round
units
TRRT-66 holds 8-10 48"-72" diameter round
tables

Capacity represents Howe 200 Series Tables.

TABLE CADDIES



#KTV-6 & 8



#KTR-9

#KTH-8

Rugged caddies for vertical or horizontal storage

Speeds set-up and storage of folding tables. All models feature Chan-Angle heavy-gauge steel bed construction. Optional extras include brake kits and nonskid 3M Scotch-Tred to prevent tables from sliding.

Specifications

KTV and KTH: 16-ga. 1½ x 4½" angle steel side members electrically welded to 2½ x 7" channel steel cross members. 4" roller bearing wheels, 2 fixed, 2 swivel. 4 swivel optional.

KTR-9: 16-ga. 1 x 2" tubular steel base frame welded together. Ends of 18-ga. 1½" o.d. tubular steel welded to steel brackets which also serve as post sockets. Unit bolts together. End posts are 18-ga. 1½" dia. tubular steel. Side and end posts removable for stacking empty trucks. 5" roller bearing wheels, 2 fixed, 2 swivel. 4 swivel optional. Finish: Electrostatically spray-painted nonchipping alkyl urea baked-on enamel.

SIZES/CAPACITIES

KTV-6 & 8: 78" long, 26½" wide and 28½" high. Stacks either 6 or 8 long tables on edge. Stores up to 9 tables depending on thickness.

KTH-6: 78" long, 26½" wide and 32" high. Stacks 6 long tables horizontally, up to 12 tables high, depending on table thickness.

KTH-8: 99½" long, 26½" wide and 32" high. Stacks 8 long tables horizontally, up to 12 tables high, depending on table thickness.

KTR-9: 48½" long, 32½" wide and 44½" high. Stacks 4 or 5 round tables on edge. Stores up to 8 tables, depending on thickness.

and, Krueger has more furniture for your needs . . . write for catalog



Fiberglass Chairs

Pedestal Tables

Chair/Table Groups

Modular Seating

Stools



Poly Chairs

Contract Tables

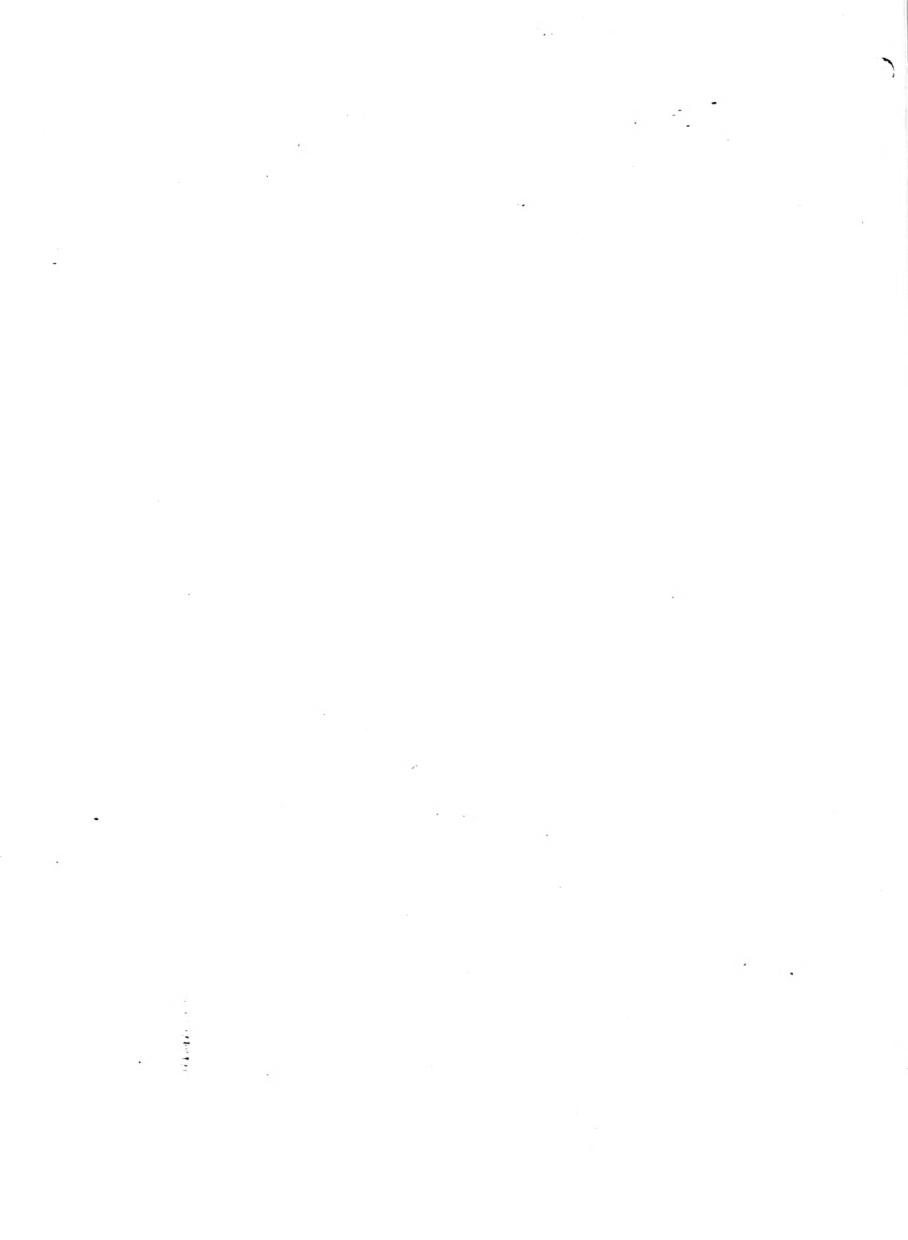
Folding/Fix Leg Tables

Folding Chairs

krueger

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Green Bay, WI 54308

Litho in USA Code 3012/SP15M280





DELUXE INDOOR FLAG SETS

Admiral's Deluxe Flag Sets feature the finest in indoor accessories which, when assembled, will enhance the beauty of any room, Church or Auditorium. All sets feature Nylon flags with gold 2" fringe, hardwood Oak poles with brass joints, richly gold plated ornaments, gold cord and tassels and heavy floor stand with gold anodized aluminum cover.

Code 227 - 3' x 5' U.S. Indoor flag set with Nylon flag, 8' Oak pole with gold plated Eagle, gold cord and tassels and gold finished floor stand. Flag comes with pole heading and 2" gold fringe.

Code 228 - 4' x 6' U.S. Indoor flag set with Nylon flag, 9' Oak pole with gold plated Eagle, gold cord and tassels and gold finished floor stand. Flag comes with pole heading and 2" gold fringe.

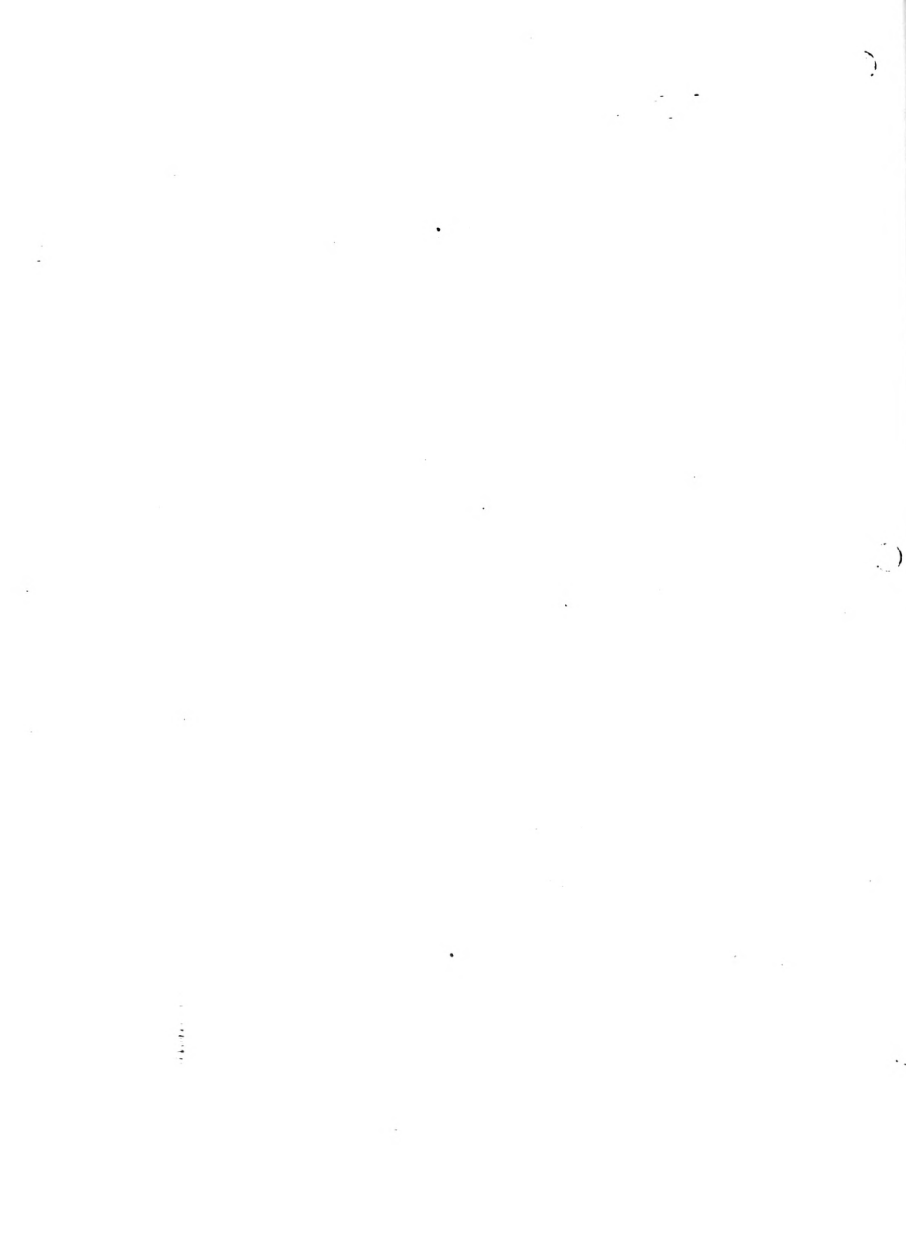
Code 229 - 3' x 5' State Indoor flag set with Nylon flag, 8' Oak pole with gold plated spear, gold cord and tassels and gold finished floor stand. Flag comes with pole heading and 2" gold fringe.

Code 230 - 4' x 6' State Indoor flag set with Nylon flag, 9' Oak pole with gold plated spear, gold cord and tassels and gold finished floor stand. Flag comes with pole heading and 2" gold fringe.

NOTE: When figuring the cost of a State flag set, add the cost of the desired State flag to the cost of adding a pole hem and fringe, and add this to the costs for the remaining indoor accessories.

Code 231 - 3' x 5' Christian Indoor flag set with Nylon flag, 8' Oak pole with gold plated Church Cross, gold cord and tassels and gold finished flag stand. Flag comes with pole heading and 2" gold fringe.

Code 232 - 4' x 6' Christian Indoor flag set with Nylon flag, 9' Oak pole with gold plated Church Cross, gold cord and tassels and gold finished flag stand. Flag comes with pole heading and 2" gold fringe.





NYLON & COTTON STATE FLAGS

FLAGS OF THE 50 STATES

NOTE: All State flags are Code #221. When ordering, indicate size and material desired. Most State flags are dyed, except where indicated. Prices on 5' x 8' and larger flags available upon request. Flags priced by price group.

STATE	GROUP	STATE	GROUP	STATE	GROUP	STATE	GROUP
s ALABAMA	B	ILLINOIS	D	MONTANA	E	RHODE ISLAND	B
s ALASKA	A	s INDIANA	B	NEBRASKA	C	S. CAROLINA	C
ARIZONA	C	IOWA	A	NEVADA	D	S. DAKOTA	B
ARKANSAS	B	KANSAS	F	NEW HAMPSHIRE	F	s TENNESSEE	B
CALIFORNIA	C	KENTUCKY	F	NEW JERSEY	G	s TEXAS	A
s COLORADO	C	LOUISIANA	C	NEW MEXICO	B	UTAH	E
CONNECTICUT	E	MAINE	F	NEW YORK	G	VERMONT	F
DELAWARE	G	MARYLAND	C	N. CAROLINA	C	VIRGINIA	F
FLORIDA	D	MASSACHUSETTS	A	N. DAKOTA	D	WASHINGTON	C
GEORGIA	B	MICHIGAN	E	OHIO	C	W. VIRGINIA	F
HAWAII	B	MINNESOTA	E	OKLAHOMA	E	WISCONSIN	F
IDAHO	G	MISSISSIPPI	B	OREGON	H	WYOMING	C
		MISSOURI	B	PENNSYLVANIA	E		

s Sewed Throughout

State flags listed above are available in cotton and nylon, and have been priced with canvas heading and grommets for outdoor use. If indoor flags are required, pole hem and fringe can be provided. See price list.

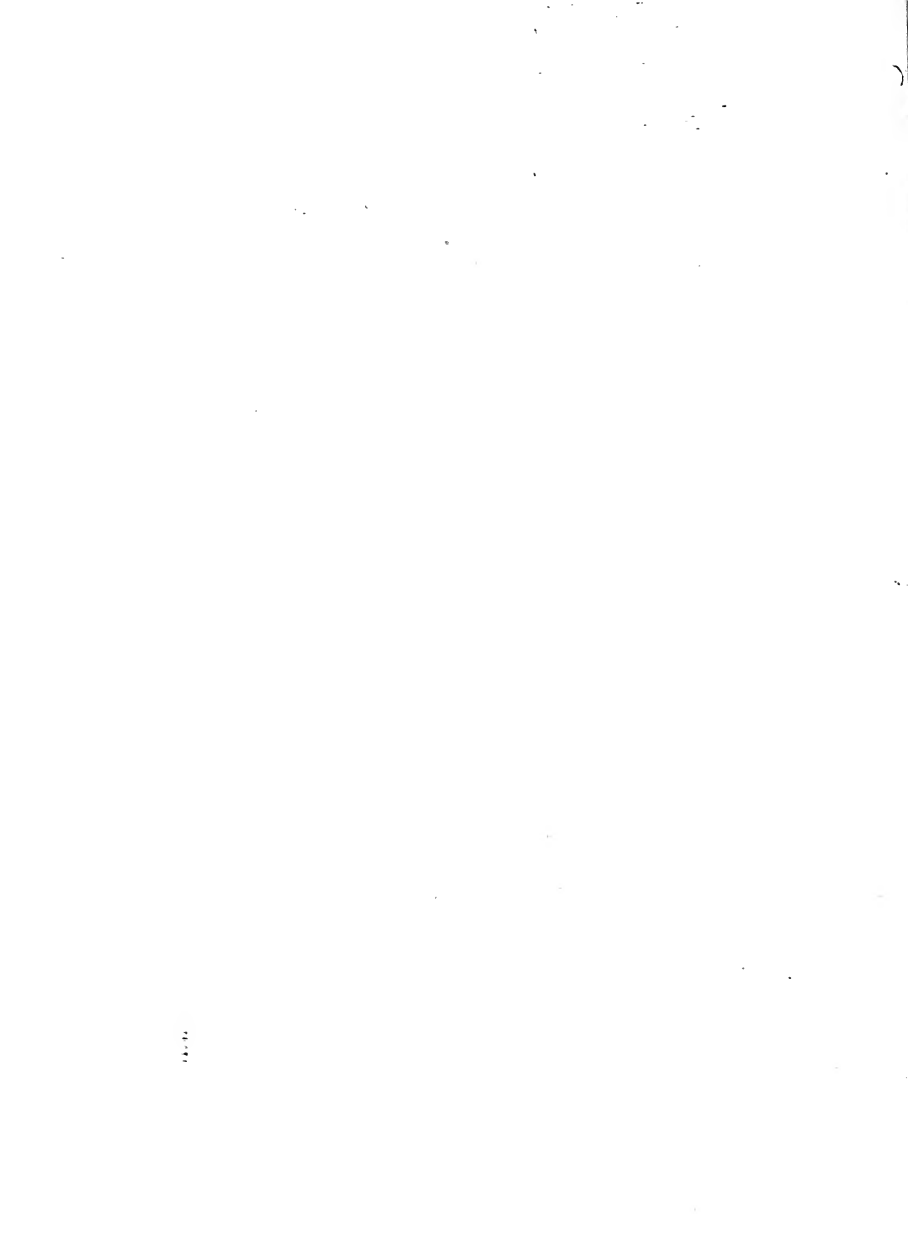


ATTENTION FLAGS

Admiral's ATTENTION FLAGS are available in Cotton or Nylon material, plain, 3 stripes or 5 stripes. Flags come with canvas heading and grommets and are made to order in your choice of color combinations. Colors available: Red, White, Flag Blue, Black, Brown, Orange, Green, Yellow, Light Blue and Purple. Stripes run horizontally. Diagonal designs available at a slightly higher cost.

Code 222 3' x 5'

Code 223 4' x 6'





WIND-MASTER®

CUSTOM-MADE SPECIAL FLAGS

Admiral takes great pride in producing special flags of a desired or particular design.

Quality of both material and workmanship is assured, and every effort is made to produce, to the client's complete approval, a flag or banner which proves to be a creative work of art.

Three background shapes are available; rectangular, triangular and swallow-tail burgee. All Admiral special flags are completely sewed and available in many basic colors.

When designing your special flag, the following suggestions should be kept in mind: Keep the design simple and effective, and use well-balanced color combinations to enhance the design; Use a minimum of lettering and rely on the design to attract attention; Note the flexibility of single thickness over the excessive weight of double thickness; Consider the longer wear of a rectangular flag over the more expensive pennant or burgee.

In order that our staff may make an accurate price quotation, the following information should be supplied.

- | | |
|--------------------|--|
| 1) Quantity | 5) Lettering involved |
| 2) Material | 6) Sketch or design |
| 3) Size | 7) Single or double thickness |
| 4) Colors involved | 8) Indoor or outdoor, plain or fringed |



HOME FLAG SETS

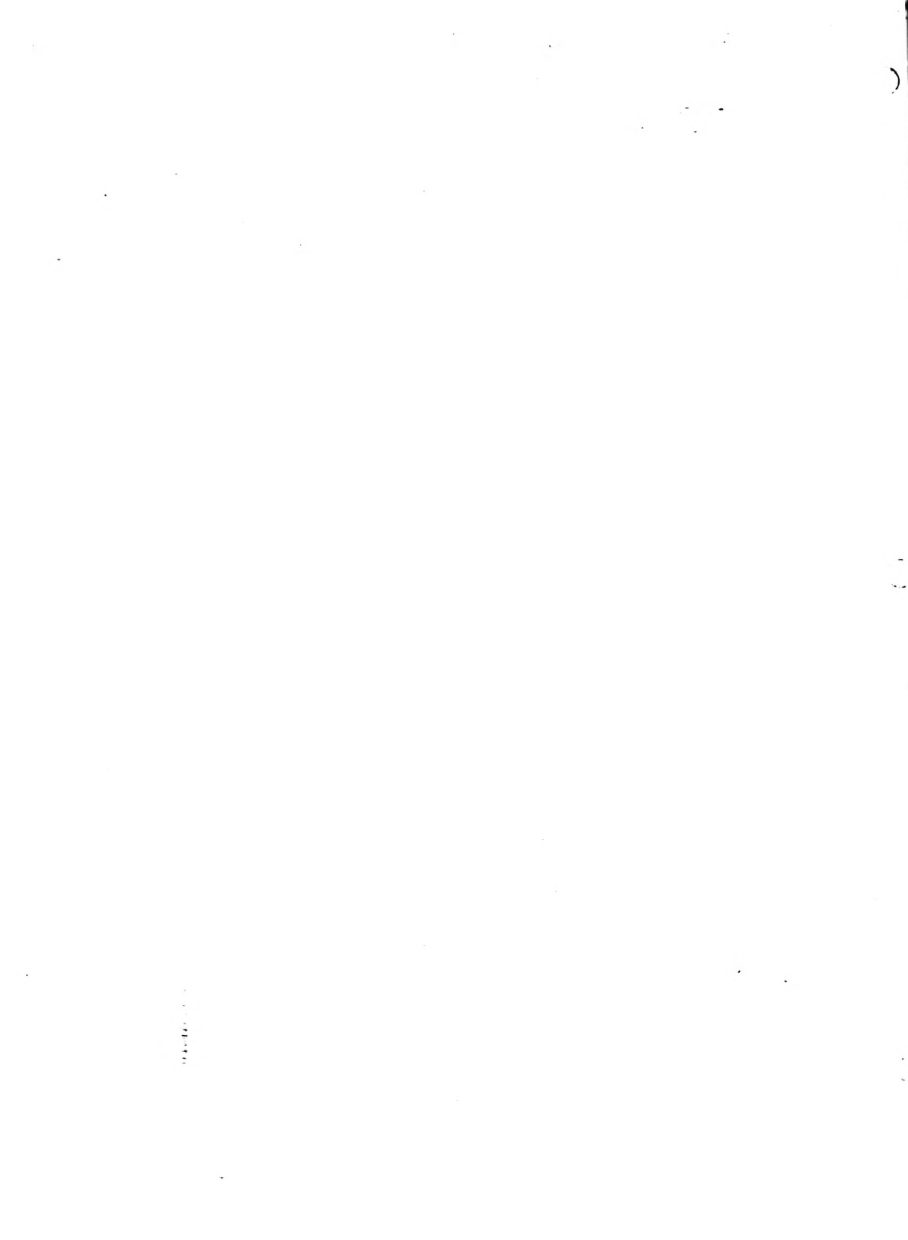
When you choose Cotton or Nylon, heavy-duty or bunting, Admiral Home Flag Sets are unsurpassed in their price range for workmanship and quality of material.

Each set comes complete with all of the accessories needed for a complete installation. With three qualities of U.S. flags to choose from, we feel that we can offer outstanding values in every respect.

Code 224 — 3' x 5' Cotton bunting - sewed stripes and printed stars, with plastic gold eagle, two piece aluminum pole, halyard and bracket.

Code 225 — 3' x 5' Heavy-Duty Cotton flag - sewed stripes and embroidered stars with gold wooden ball, one piece aluminum pole and cast aluminum star bracket.

Code 226 — 3' x 5' Nylon flag - sewed stripes and embroidered stars with gold wooden ball, one piece aluminum pole and cast aluminum star bracket.



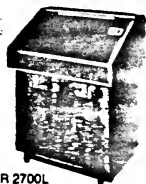
DIRECTION Series

2700-25	DIRECTION 46-1/2"H x 28-1/2"W x 27-1/2"D	200#
2700G-25	with public address system	250#
2700L-25	with "LECTRAJUST" electric height control	275#
2700LG-25	with "LECTRAJUST" electric height control and public address system	300#
2700-32	DIRECTION 46-1/2"H x 35-1/2"W x 27-1/2"D	245#
2700G-32	with public address system	250#
2700L-32	with "LECTRAJUST" height control	260#
2700LG-32	with "LECTRAJUST" height control and public address system	300#
2700-40	DIRECTION 46-1/2"H x 43-1/2"W x 31"D	260#
2700G-40	with public address system	300#
2700L-40	with "LECTRAJUST" electric height control	305#
2700LG-40	with "LECTRAJUST" electric height control and public address system	355#

The VAN SAN DIRECTION Series, with its distinctive geometric design, blends beauty with versatility in the VAN SAN tradition. Included with the DIRECTION Series is a light, digital clock, recessed wheels for easy mobility and can include the "LECTRAJUST" electric height control and self-contained public address system.



2700/2700L-32



REAR 2700L

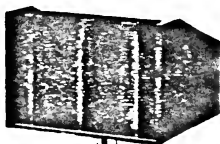
EXTENSION
SPEAKERS FOR
SOUND
No Grill

CONTEMPO Series

The VAN SAN CONTEMPO Series combines the classic warmth and beauty of hand-finished wood, with a contemporary, highly polished chrome PS-89 pedestal base. The CONTEMPO Series is equipped with a light and digital clock.

800-28	CONTEMPO 800 46"H x 28"W x 27-1/2"D	100#
800G-28	with public address system	125#
900-25	CONTEMPO 900 46"H x 25"W x 23-1/4"D	75#
900G-25	with self-contained public address system	100#
PS-89	PEDESTAL BASE (Polished Chrome) 28"H w/4" Dia. column and 28" spread base	42#

EXTENSION SPEAKERS SUPPLIED WITH 800 SERIES ONLY

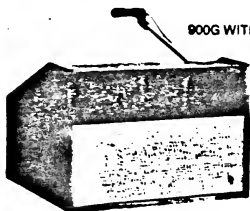


800 SERIES

800 SERIES



REAR OF 800



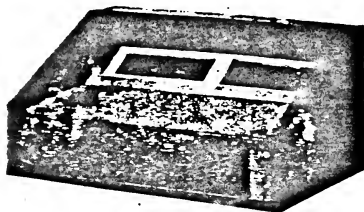
900G WITH SOUND



REAR OF 800

MULTI-MEDIA OPTIONS

VAN SAN DOES NOT INSTALL MULTI-MEDIA CONTROLS. Cutouts for the installation of multi-media panel can be made upon request. Cutouts are routed so the control panel is flush with the lectern work surface. Template or exact drawing should be supplied with information as to where control panel is to be located.



Architectural Specifications

Lectern shall be the Van San Conference, President, Direction or Contempo Series. Wood to be architectural grade, plain sliced walnut A/2 (or other specified material) veneer core plywood. Upper and lower sections shall be butt-matched with all exposed edges edge-banded under pressure. All mitred or tongue and groove joints to be pressure-clamped and glued. All mounting cleats to be screwed in place. Base shall be joined with spline mitre corners, glued and hand-clamped. Finish to be Van San exclusive five-coat application with each coat hand-sanded and hand-rubbed.

Lectern shall be equipped with light and digital clock. Two three-inch wheels shall be mounted at lectern base on speaker's side for mobility. Work surface shall be Suede Black Laminate, easily removed for installation of multi-media controls.

WORK SURFACE dimensions (Upper Slanted Section) 9-1/2" D x 23-1/2" W (500/700 Series); 30-1/2" W (1500/1700-32 Series); 38-1/2" W (1500/1700-40 Series). (Lower Section) dimensions 13" D x 23-1/4" W (500/700 Series); 30-1/2" W (1500/1700-32 Series); 38-1/2" W (1500/1700-40 Series).

The Van San self-contained public address system shall consist of a fully transistorized, 25-watt RMS plug-in amplifier, a matched 8" low-resonance speaker and a low-impedance, cardioid dynamic microphone. Power sources shall consist of two standard 6-volt lantern batteries and AC power. Control panel includes ON/OFF/VOLUME control. Three microphone input jacks. Input and output jack with separate volume control for tape recorder or phonograph. Two output jacks for external speakers. The system is available by selecting those model numbers followed by the letter "G".

Equipment Options

CONFERENCE AND PRESIDENT SERIES — Overall dimensions shall be 46-1/2" H at front and 40-1/2" H at speaker's side x 25" W (500/700); 32" W or 40" W (1500/1700) x 23" D.

DIRECTION SERIES — Overall dimensions shall be:

	Bottom Section	Top Section
2700-25	29" H x 25" W x 23" D	17" H x 28" W x 27-1/2" D
2700-32	29" H x 32" W x 23" D	17" H x 35-1/2" W x 27-1/2" D
2700-40	29" H x 40" W x 23" D	17" H x 46" W x 31" D

Work Surface

	Upper Slanted Section	Lower Section
2700-25	9" D x 26-1/2" W	19-1/2" D x 6-1/2" W
2700-32	9" D x 34" W	19-1/2" D x 34" W
2700-40	9" D x 44-1/2" W	23-1/2" D x 44-1/2" W

CONTEMPO SERIES — Overall dimensions shall be 17" H x 28" W x 27-1/2" D for 800-25; 17" H x 35-1/2" W x 27-1/2" D for 800-32; 17" H x 46" W x 31" D for 800-40. Polished chrome pedestal base shall be 27-1/2" H with 4" Dia. Column and 28" spread base.

Van San "Lectrajust" electric height control. Lectern shall be raised or lowered to any point up to 8" at rate of 1" per second. Motor and lift assembly to be noise-isolated for smooth, silent operation. Unit to be controlled with a rocker switch and equipped with special device to prevent overrun. Grounded 3-wire detachable cord to fit Hubbell entrance plug. Complete motor section to be enclosed with locking walnut panel. "Lectrajust" is available by selecting those model numbers followed by the letter "L".

ARCHITECTURAL SPECIFICATIONS—TABLE MODELS

Lectern shall be the VAN SAN Seminar or Continental Series and will have a walnut wood grain finish (or other specified material) with all edges edge-banded under pressure. All mitred or tongue and groove joints to be pressure-clamped and glued. All mounting cleats to be screwed in place. Continental Series shall be equipped with light.

SEMINAR SERIES overall dimensions shall be 15" H x 19" W x 21" D.

CONTINENTAL SERIES overall dimensions shall be 18-1/2" H x 24" W x 22" D.

EXECUTIVE AND DIPLOMAT SERIES wood to be architectural grade, plain sliced walnut A/2 (or other specified material) veneer core plywood. All mitred or tongue and groove joints to be pressure-clamped and glued. Finish to be VAN SAN exclusive five-coat application with each coat hand-sanded and hand-rubbed. Lectern shall be equipped with light and digital clock.

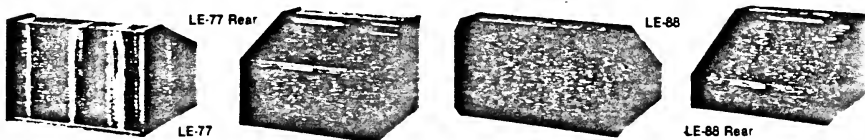
EXECUTIVE SERIES overall dimensions shall be 17" H x 25" W x 23" D.

DIPLOMAT SERIES overall dimensions shall be 17" H x 28" W x 27-1/2" D.

TABLE MODEL Lecterns

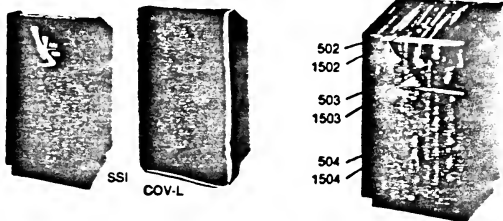
VAN SAN TABLE MODEL Lecterns combine portability with rugged construction and fine craftsmanship. Textured black laminate plastic accents the reading surface. The SEMINAR and CONTINENTAL models can be mounted on Van San PS-69 Pedestal Base. Additional accessories are available.

LE-33	SEMINAR 15"H x 19"W x 21"D	39#
LE-33G	with self-contained public address system	47#
LE-44	CONTINENTAL w/light 18-1/2"H x 24"W x 22"D	54#
LE-44G	with self-contained public address system	65#
PS-69	PEDESTAL BASE (Polished Chrome) 28" x 2-1/2" Dia. column and 26" spread base	25#
LE-77	EXECUTIVE with light and digital clock 17-1/2"H x 25-1/4"W x 23-1/4"D	55#
LE-77G	with self-contained public address system	65#
LE-88	DIPLOMAT with light and digital clock 17-1/2"H x 28-1/2"W x 27-1/2"D	100#
LE-88G	with public address system and extension speakers	125#
PS-89	PEDESTAL BASE (Polished Chrome) 28"H w/4" Dia. column and 28" spread base	42#



Optional Accessories

515SB	Microphone, Low Impedance
SA-8	Adaptor, Microphone
MSA-1	Microphone Support Arm
L-37A	Lavalier, Microphone
D-10	Microphone Stand, Desk Model
A-11	Microphone Stand, Floor Model
EM-25	Microphone Extension Cord, 25'
ES-25	Speaker Extension Cord, 25'
EX-15	Speaker, Deluxe Extension
PQ-01	Clock, Digital
LT-5572	Light, Incandescent
LT-5572-D	Light, Incandescent with Remote Dimmer
ER-2	Receptacle, Electrical, 4-Outlet
BAT-6	Batteries, Set of two for use with P.A. System
COV-L	Quilted Pad for Lecterns
SSI	Silk Screening of Logo



BASES

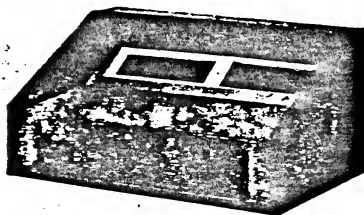
PS-69	Pedestal Base, Polished Chrome, 28"H x 2-1/2" Dia. Column, 26" Spread Base, for use with LE-33, LE-33G, LE-44, LE-44G
PS-89	Pedestal Base, Polished Chrome, 28"H x 4" Dia. Column, 28" Spread Base, for use with LE-77, LE-77G, LE-88, LE-88G.

LECTERN ENCLOSURES (Order with lectern)

502	Enclosure with lock for top of Model 500, 700 series
1502	Enclosure with lock for top of Model 1500, 1700 series
503	Enclosure with lock for back (top section) of Model 500, 700 series
1503	Enclosure with lock for back (top section) of Model 1500, 1700 series
504	*Enclosure with lock for back (bottom section) of Model 500, 700 series
1504	*Enclosure with lock for back (bottom section) of Model 1500, 1700 series
	*NOTE: Included with Models 700L, 700LG, 1700L, 1700LG, 2700L, 2700LG

MULTI-MEDIA OPTIONS

VAN SAN DOES NOT INSTALL MULTI-MEDIA CONTROLS. Cutouts for the installation of multi-media panel can be made upon request. Cutouts are routed so the control panel is flush with the lectern work surface. Template or exact drawing should be supplied with information as to where control panel is to be located.



Architectural Specifications

Lectern shall be the Van San Conference, President, Direction or Contempo Series. Wood to be architectural grade, plain sliced walnut A/2 (or other specified material) veneer core plywood. Upper and lower sections shall be butt-matched with all exposed edges edge-banded under pressure. All mitred or tongue and groove joints to be pressure-clamped and glued. All mounting cleats to be screwed in place. Base shall be joined with spline mitre corners, glued and hand-clamped. Finish to be Van San exclusive five-coat application with each coat hand-sanded and hand-rubbed.

Lectern shall be equipped with light and digital clock. Two three-inch wheels shall be mounted at lectern base on speaker's side for mobility. Work surface shall be Suede Black Laminate, easily removed for installation of multi-media controls.

WORK SURFACE dimensions (Upper Slanted Section) 9-1/2" D x 23-1/2" W (500/700 Series); 30-1/2" W (1500/1700-32 Series); 38-1/2" W (1500/1700-40 Series). (Lower Section) dimensions 13"D x 23-1/4" W (500/700 Series); 30-1/2" W (1500/1700-32 Series); 38-1/2" W (1500/1700-40 Series).

The Van San self-contained public address system shall consist of a fully transistorized, 25-watt RMS plug-in amplifier, a matched 8" low-resonance speaker and a low-impedance, cardioid dynamic microphone. Power sources shall consist of two standard 6-volt lantern batteries and AC power. Control panel includes ON/OFF/VOLUME control. Three microphone input jacks. Input and output jack with separate volume control for tape recorder or phonograph. Two output jacks for external speakers. The system is available by selecting those model numbers followed by the letter "G".

Equipment Options

CONFERENCE AND PRESIDENT SERIES — Overall dimensions shall be 46-1/2" H at front and 40-1/2" H at speaker's side x 25" W (500/700); 32" W or 40" W (1500/1700) x 23" D.

DIRECTION SERIES — Overall dimensions shall be:

	Bottom Section	Top Section
2700-25	29"H x 25"W x 23"D	17"H x 28"W x 27-1/2"D
2700-32	29"H x 32"W x 23"D	17"H x 35-1/2"W x 27-1/2"D
2700-40	29"H x 40"W x 23"D	17"H x 46"W x 31"D

Work Surface

	Upper Slanted Section	Lower Section
2700-25	9"D x 26-1/2"W	19-1/2"D x 6-1/2"W
2700-32	9"D x 34"W	19-1/2"D x 34"W
2700-40	9"D x 44-1/2"W	23-1/2"D x 44-1/2"W

CONTEMPO SERIES — Overall dimensions shall be 17"H x 28"W x 27-1/2"D for 800-25; 17" H x 35-1/2"W x 27-1/2"D for 800-32; 17"H x 46"W x 31"D for 800-40. Polished chrome pedestal base shall be 27-1/2" H with 4" Dia. Column and 28" spread base.

Van San "Lectrajust" electric height control. Lectern shall be raised or lowered to any point up to 8" at rate of 1" per second. Motor and lift assembly to be noise-isolated for smooth, silent operation. Unit to be controlled with a rocker switch and equipped with special device to prevent overrun. Grounded 3-wire detachable cord to fit Hubbel entrance plug. Complete motor section to be enclosed with locking walnut panel. "Lectrajust" is available by selecting those model numbers followed by the letter "L".

ARCHITECTURAL SPECIFICATIONS—TABLE MODELS

Lectern shall be the VAN SAN Seminar or Continental Series and will have a walnut wood grain finish (or other specified material) with all edges edge-banded under pressure. All mitred or tongue and groove joints to be pressure-clamped and glued. All mounting cleats to be screwed in place. Continental Series shall be equipped with light.

SEMINAR SERIES overall dimensions shall be 15"H x 19"W x 21"D.

CONTINENTAL SERIES overall dimensions shall be 18-1/2" H x 24"W x 22"D.

EXECUTIVE AND DIPLOMAT SERIES wood to be architectural grade, plain sliced walnut A/2 (or other specified material) veneer core plywood. All mitred or tongue and groove joints to be pressure-clamped and glued. Finish to be VAN SAN exclusive five-coat application with each coat hand-sanded and hand-rubbed. Lectern shall be equipped with light and digital clock.

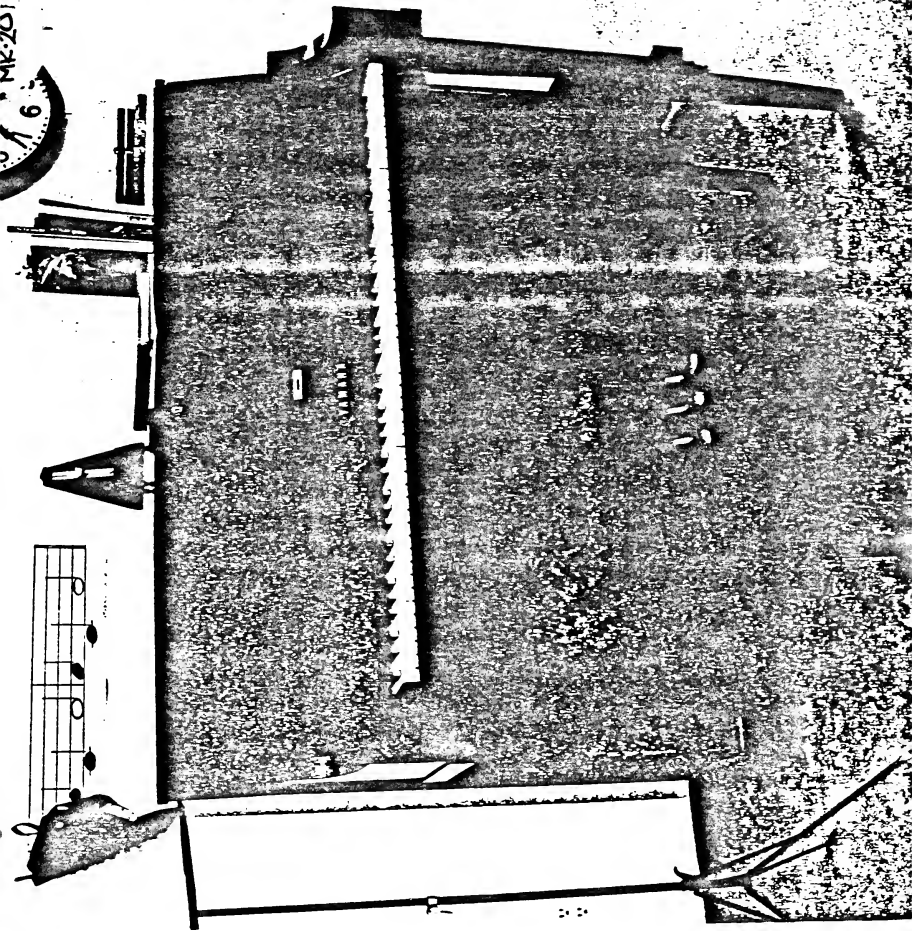
EXECUTIVE SERIES overall dimensions shall be 17"H x 25"W x 23"D.

DIPLOMAT SERIES overall dimensions shall be 17"H x 28"W x 27-1/2"D.

P202 Studio

88 keys 45" high, 59" wide,
23" deep, 452 lbs.

Third pedal: Bass Sustain.
Finished in American Walnut
and Oak. (photo:
American Walnut)



Yamaha Piano Specifications:

ITEM	P202	P2	U1	U3	U7	Remarks
DIMENSION - HEIGHT	45"	45-3/4"	48"	51-1/2"	51-1/2"	
SOUNDBOARD MATERIAL	Solid Spruce	Solid Spruce	Solid Spruce	Solid Spruce	Solid Spruce	*Page 5
ACOUSTIC BAR	2	2	2	2	2	*Page 6
FULL-LENGTH RIBS	Yes	Yes	Yes	Yes	Yes	*Page 7
GRAND PIANO KEY TRAVEL	Yes	Yes	Yes	Yes	Yes	*Page 9
METAL ACTION RAIL	Yes	Yes	Yes	Yes	Yes	*Page 10
BALANCED ACTION	Yes	Yes	Yes	Yes	Yes	*Page 11
UNIQUE STRINGING METHOD	Yes	Yes	Yes	Yes	Yes	*Page 14
CUT THREAD TUNING PIN	Yes	Yes	Yes	Yes	Yes	*Page 16
CENTER PEDAL FUNCTION	Bass Sustain	Mute	Mute	Full Sostenuto	Full Sostenuto	
DOUBLE WHEEL HARD-RUBBER CASTERS	Yes	No (Steel)	No (Steel) (Conversion Kit Available)	Yes	No (Steel)	
FINISH	American Walnut	x				
Oak	x					
Satin Ebony		x	x			
Polished Ebony		x	x	x		
Satin Walnut		x	x			
Polished Walnut		x	x	x		
Teak					x	

*See Piano Purchaser's Guide.

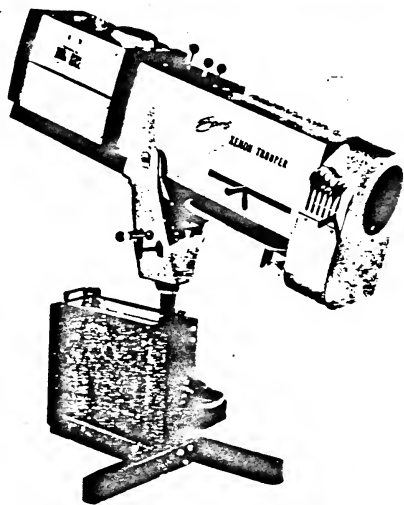


SINCE 1887

YAMAHA

Keyboard Division, Yamaha International Corp.
P.O. Box 6600, Buena Park, California 90622.

Strong's XENON TROUPE FOLLOW SPOTLIGHT



SPECIFICATIONS

MECHANICAL

- "Cold" Metal Reflector
- Six Color Boomerang with Gelatin Color Filters
- Ultra-Violet Filter Available
- Horizontal Masking Control
- Nichrome Steel Iris
- Spot Focus Adjusting Knob
- Dimming Control
- Controls for Adjusting Spotlight Height, Vertical and Horizontal Movement

ELECTRICAL

- Input - 115 Volt, 60 Hz, A.C.
- Operates at Maximum 21 Amp.
- Bulb Operation Elapsed Time Meter
- Ammeter on Lamp
- 700 Watt Xenon Bulb
- Warranted for 1500 Hours
- Operating Time - Continuous
- Color Temperature 5700° Kelvin

The XENON TROUPE is manufactured by Strong Electric whose high intensity spotlights are recognized as the standard for lighting throughout the entertainment world.

This Xenon light source projects 35% more light than the carbon arc Trouper model. It is extremely simple to operate - a press of the ignite switch provides light for instant projection. There is no waiting time for warm-up and restart and the projected light throughout any performance will remain constant. The operating time is unlimited. Price includes bulb.

Strong's XENON TROUPE, like all Strong spotlights, utilizes Strong's exclusive variable focal length lens system which increases intensity as the

light beam is reduced from flood to spot.

The high reactance power supply is furnished with a standard twistlock attachment cord cap for 115 V. 60 cycle, A.C. supply.

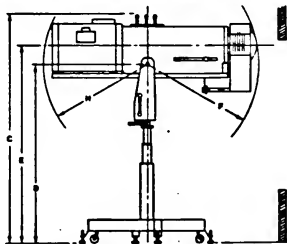
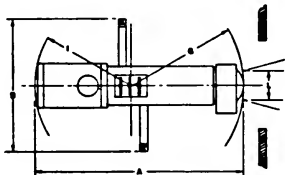
The control cable between the lamp and power supply is furnished with a MS connector at the power supply for quick and easy disconnect.

The Xenon Bulb is a quartz envelope containing two tungsten electrodes in a pressurized Xenon gas atmosphere, producing a steady pure white light with daylight color quality. Other characteristics include high arc brightness, instant start, maintenance free operation and low power consumption.

XENON SPOTLIGHT

VARIABLE LENS SYSTEM PERFORMANCE AT VARIOUS DISTANCES

MAXIMUM FLOOD			SMALL SPOT		MIN. SPOT DIA. WITH IR	
Throw in Feet	Diameter Feet	Foot Candles	Diameter	Foot Candles	Diameter	Foot Candles
10	4.0	1650	14	22875	2	22875
20	8.0	413	28	5719	4	5719
40	16.1	103	57	1413	9	1430
60	24.1	46	85	635	13	635
80	32.1	26	114	357	18	357
100	40.2	17	142	229	22	229
120	48.2	11.5	170	159	26	159
140	56.2	8.4	199	117	31	117
200	80.3	4.1	284	57	44	57



Letter	Description	Dimension	Letter	Description	Dimension
A	Overall length of unit	54"		Maximum height at front with maximum spread lift	65"
B	Overall width of unit at base	35 1/2"		Maximum diameter of beam with 200° throw	50"
C	Overall height of unit	56"		Maximum diameter of beam with 200° throw	44"
D	Height of photocell	42.5"		Maximum diameter of beam with 100° throw	30"
E	Height of beam axis when horizontal	47.5"		Maximum diameter of beam with 100° throw	27"
F	Front clearance (adjust for vertical movement)	31"		Maximum diameter of beam	20"
G	Front clearance (adjust for horizontal movement)	30"		Service life (hours)	10000
H	Steel chain drive radius for vertical movement	12 1/2"		Net weight (pounds)	1099
	Steel chain drive radius for horizontal movement	26.5"			

DISTRIBUTED BY:

STRONG ELECTRIC CORPORATION

87 City Park Avenue

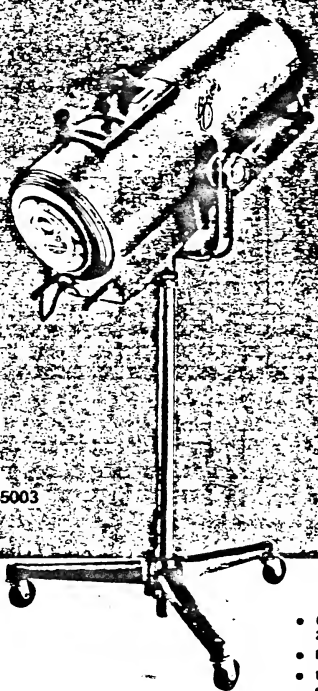
Toledo, Ohio 43697

Phone: (419) 248-3741 Telex: 294033

A subsidiary of Conrad-Hanovia, Inc.



TROUPERETTE III



TYPE
NO. 45003

by
Strong

QUARTZ-HALOGEN 1000 WATT FOLLOW SPOTLIGHT

- Quartz-Halogen lamp — 1000 watt, 250 Hour Life
- Draws only 8.5 to 9.5 Amperes
- Exclusive single lever controlled two element variable focal length lens system
- Horizontal masking control with 45% angle adjustment
- Nichrome heavy duty iris
- Simple to operate built-in six color boomerang.
- Quick relamp design
- 115 volt A.C. operation ... equipped with 25 ft. 3 wire cable.

The Strong Trouperette III follow Spotlight features a Quartz-Halogen lamp that projects spots three to four times brighter than conventional incandescent spotlights of equal wattage. The optical system is designed for use with the Quartz-Halogen lamp that results in high intensity light with excellent color rendition.

The Trouperette III utilizes STRONG'S EXCLUSIVE variable focal length lens system (single lever controlled) which increases intensity as the light beam is reduced from flood to spot. The light

output remains stable throughout the life of the lamp.

Spots projected by the Trouperette III are sharp, brilliant, and perfectly shaped throughout the variation in spot sizes. The built-in A.C. blower keeps the lamp and color frames cool and adds to the operator's comfort and safety.

The construction of the Trouperette III makes Operation and Servicing extremely simple. The Unique bulb-pivot design permits relamping in seconds.

Our Dealers can arrange a demonstration — Write to Strong for details.

STRONG ELECTRIC CORPORATION

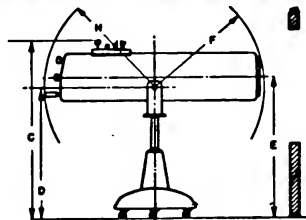
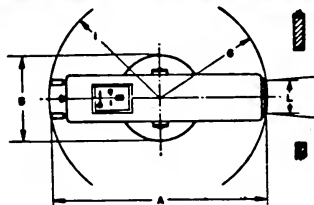
TROUPELETTE III

TYPE NO. 45003

Light Data and Specifications

VARIABLE LENS SYSTEM PERFORMANCE AT VARIOUS DISTANCES

MAXIMUM FLOOD			SMALL SPOT		MIN. SPOT DIA. WITH 11	
Row In Feet	Diameter Feet	Foot Candles	Diameter	Foot Candles	Diameter	Foot Can
40	15.2	52	5.0 ft.	240	12 in.	240
50	19	32	6.3 ft.	155	15 in.	155
60	22.8	23	7.5 ft.	110	18 in.	110
70	26.6	17	8.7 ft.	81	21 in.	81
80	30.4	13	9.9 ft.	63	24 in.	63
90	34.2	10.2	11.2 ft.	49	27 in.	49
100	38	8.3	12.4 ft.	39	30 in.	39
110	41.8	6.8	13.6 ft.	33	33 in.	33
120	45.6	5.7	14.8 ft.	28	36 in.	28
130	49.4	4.9	16.1 ft.	24	39 in.	24
140	53.2	4.2	17.3 ft.	21	42 in.	21



Letter	Description	Dimension	Letter	Description	Dimension
A	Overall length of unit	55 1/2"	K	Maximum height at front with maximum upward tilt	57"
B	Overall width of unit at base	25"	L	Diameter of beam at unit	100"
C	Overall height of unit	15 1/2"	M	Maximum diameter of beam with 100° throw	100"
D	Height of pivot point	14 1/2"	N	Minimum diameter of beam with 100° throw	100"
E	Height of beam axis when horizontal	14"		Measurements shown with spotlight at lowest height. Spotlight base provides variable adjustment upward of 25 inches.	
F	Front clearance radius for vertical movement	17"		Maximum downward tilt	15°
G	Front base-line radius for horizontal movement	17"		Maximum upward tilt	15°
H	Wheel clearance radius for vertical movement	15"		Horizontal sweep	200°
I	Wheel clearance radius for horizontal movement	15"		Net weight	100 lbs.
J	Maximum height of beam with maximum downward tilt	100"		Gross weight	120 lbs.
				Domestic pack carton	41X 33X 37

DISTRIBUTED BY:

STRONG ELECTRIC CORPORATION

87 City Park Avenue
Toledo, Ohio 43697
Phone: (419) 248-3741 Telex: 298033
A subsidiary of Conrad-Manevia, Inc.

Information Display

This group consists of poster holder/tackboard combination units, changeable letterboards, literature organizers, and perpetual calendars. Wall, counter, and floor-standing variations are available.

Counter Poster Holder. Slotted aluminum frame and aluminum base. Accepts 14-in. by 11-in. poster size. Standard in medium bronze and matte black acrylic finishes.

Floor Standing Poster Holder/Tackboard Combination Units. Aluminum extrusion, ¾-in. by 1½-in. by 60-in. high with milled sides and slotted top, permitting removal of posters or other signage elements. Satin clear anodized, duranodic medium bronze, and duranodic black finishes are standard. Tackboard is standard in black, brown, and tan.

Changeable Letterboards. Standard in brown and black. Refer to page 15 for changeable letter details.

Product Code Nos. and Insert Sizes

481—12-in. by 12-in.

482—14-in. by 11-in.

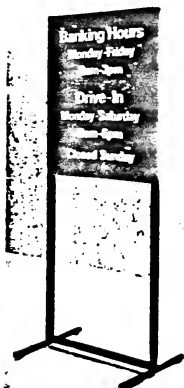
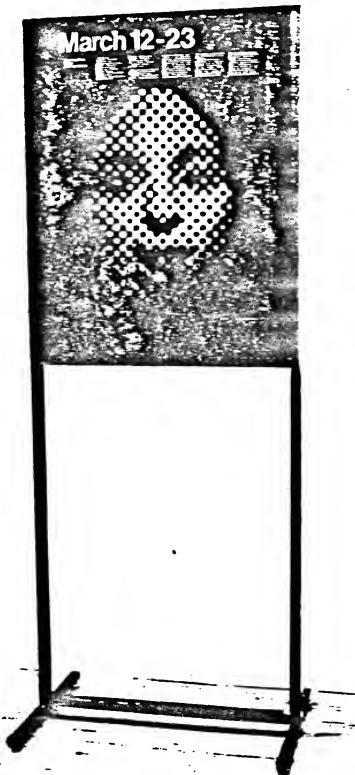
483—18-in. by 18-in.

484—22-in. by 14-in.

485—24-in. by 24-in.

486—28-in. by 22-in.

MR-22



Ordering Information

When ordering, indicate the information required for the complete product. Refer to the catalogue for the product code, standard sizes, colors, typography information, sign construction, mounting attachments, installation methods, and other standard information.

Indicate the copy requirement exactly as it is to appear on the sign. Indicate copy requirements separately for each side of a double-faced sign. Normal letter spacing will be supplied unless otherwise indicated.

All orders must contain the following information:

- Date
- Billing Address
- Shipping Address
- Purchase Authorization
- Special Shipping Instructions if required
- Approximate Date Required
- Credit Information, if not previously established

Information required

Typography—PM Series

- A. Graphic insert size or format code
- B. Type style and size
- C. Type color
- D. Type position
- E. Background color
- F. Copy requirements
- G. Mounting attachment

Typography—PA Series

- A. Product code
- B. Letter style and size
- C. Letter color
- D. Letter position
- E. Copy requirements

Area and Room Identification/Desk and Counter/ pages 22-29.

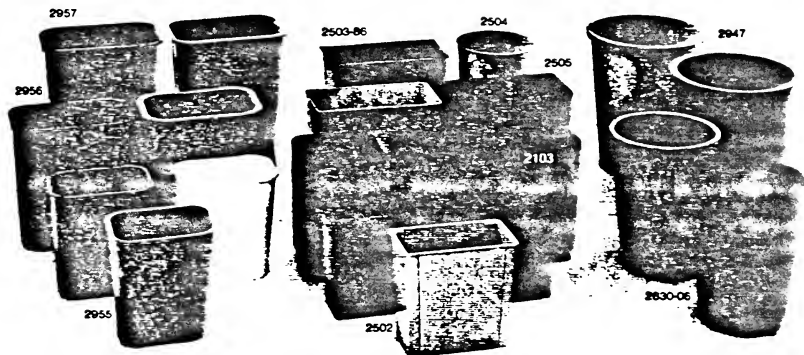
- 1. Product Code
- 2. Size
- 3. Frame or Fixture
 - A. Color or finish
 - B. Mounting attachment
- 4. Sign and/or Insert Component
 - A. Construction
 - B. Background color
 - C. Type style and size
 - D. Type color
 - E. Type position
 - F. Copy requirements
- 5. Mounting Attachment
 - A. Permanent, semipermanent, or removable

Information Display—Poster holders, literature organizers, and 360 Series perpetual calendars/
pages 30 and 31.

- 1. Product Code
- 2. Color or finish(s)—360 and 480 Series
 - A. Tackboard
 - B. Changeable letterboard
- 3. Typography—360 Series
 - A. Type style
 - B. Type color
 - C. Background color
- 4. Mounting Attachment

Letters—Letterlign, Letterlign/Prespaced and Dimensional Letters/pages 36-38.

- 1. Product Code
- 2. Letter Style and Size
- 3. Letter Color or Finish
- 4. Letter Material and Thickness
- 5. Mounting Attachment
- 6. Spacing Template
- 7. Copy, Box, Replacement Package Requirements
- 8. Product Code—Type A
 - A. Size
 - B. Color
 - C. Type position
 - D. Mounting attachment



RECTANGULAR

No.	Description	Color	Pk.
2957	Large Wastebasket 41½ qts 15½" x 11" x 19½" h.	Gray, Black, Dark Brown, Beige	12
Use Polyliner™ Bag No. 5003			
2956	Medium Wastebasket 28½ qts 14½" x 10½" x 15" h.	Gray, Black, Dark Brown, Orange Beige, Walnut, Mist Green	12
Use Polyliner™ Bag No. 5002			
2955	Small Wastebasket 13½ qts 11¼" x 8½" x 12¼" h.	Gray, Black, Dark Brown, Beige, Walnut, White	12
Use Polyliner™ Bag No. 5001			
2952-89	Vanity Wastebasket 8 qts 9" x 6½" x 10½" h.	Beige, White	6

Imprinting: Hot Stamp imprinting offered on as few as 144 units (2955-91 and 2956-91 only) See your Rubbermaid Sales Representative for details

DESIGNER RECTANGULAR

No.	Description	Color	Pk.
2502	Small Wastebasket 12½ qts 7" x 12½" x 11½" high	Black, Sand, Dk. Brown	
2502-86	Small Wastebasket 12½ qts 7" x 12½" x 11½" h.	Black & Walnut	
Use Polyliner™ Bag No. 5001			
2503-86	Medium Wastebasket 26 qts 9" x 16½" x 14" h.	Black & Walnut	1000
Use Polyliner™ Bag No. 5003			
2505	Medium Wastebasket 26 qts 8½" x 16" x 13½" high	Black, Sand, Orange, Dk. Brown	500
Use Polyliner™ Bag No. 5003			
2504	Medium Wastebasket 19½ qts 11" dia x 15½" h.	Black, Sand, Dk. Brown	500
Use Polyliner™ Bag No. 5002			

DESIGNER ROUND

No.	Description	Color	Pk.
2504	Medium Wastebasket 19½ qts 11" dia x 15½" h.	Black, Sand, Dk. Brown	500
Use Polyliner™ Bag No. 5002			

Pack 6

RADIUS WASTEBASKET

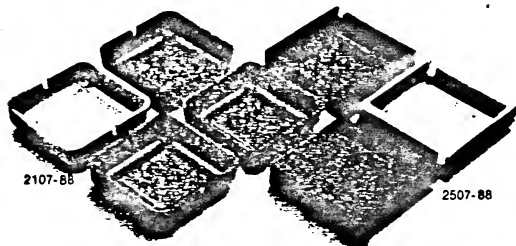
No.	Description	Color	Pk.
2103	Radius Corners 26½ qts 10" sq x 14" h.	Black, Brown, Rust, Sand, Green	6
Use Polyliner™ Bag No. 5002 Clear			
1000			
ROUND			
No.	Description	Color	Pk.
2947	Large Round 44½ qts 15½" dia x 18½" h.	Gray, Beige	6
Use Polyliner™ Bag No. 5003			
2830-06	Medium Round 24½ qts 12½" dia x 16½" h.	Gray, Beige, Black	500
Use Polyliner™ Bag No. 5002			
1000			

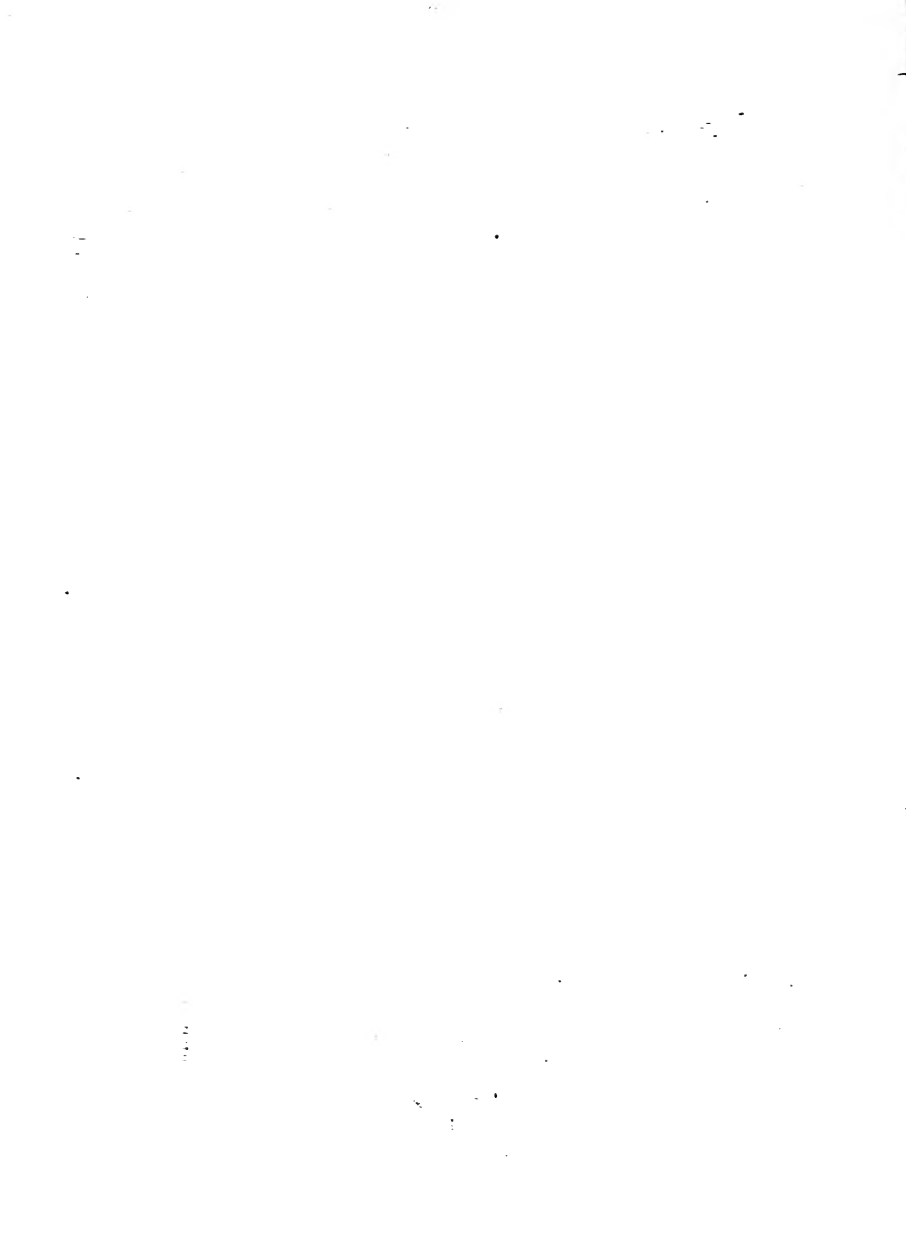
RADIUS ASH TRAY

No.	Description	Color	Pk.
2107-88	Radius Ash Tray 4½" sq x 1½" h.	Black, Brown, Rust, Sand, Green	6

DESIGNER ASH TRAY

No.	Description	Color	Pk.
2507-86	Square Ash Tray 4½" sq x 1½" h.	Black, Sand, Orange	6





Upholstered Stack Chairs

MP-29

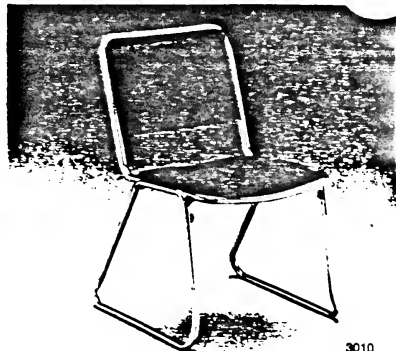


3100/3000-3000

Program 3000

3000/3100/3101

Patented leg-over-leg ganging yielding 5% additional seating capacity sets this upholstered stack chair apart. Urethane foam padded contour seat and back upholstered as specified provide comfort. Bright chrome $\frac{3}{4}$ " tubular steel frame assures durability. Distinctive design, easy set up and 16 high stack on floor make the 3000 the ideal meeting, multipurpose chair. Also available the 3100 non gang variety that stacks 10 high and the loop arm 3101 side arm chair. Options are available.

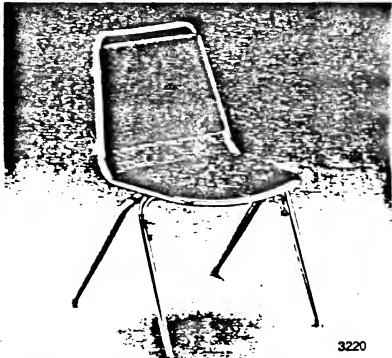


3010

3010

Stacking sled version 3000 continues the clean styling for carpeted areas or wherever a sled design is desired. Urethane foam padded contour seat and back upholstered as specified with bright chrome $\frac{3}{4}$ " tubular steel frame is standard. Stack of 12 high on the floor is easily transported.

Options are available



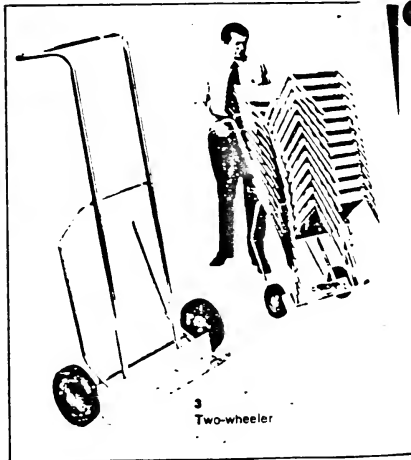
3220

Astro® Upholstered Stack Chairs

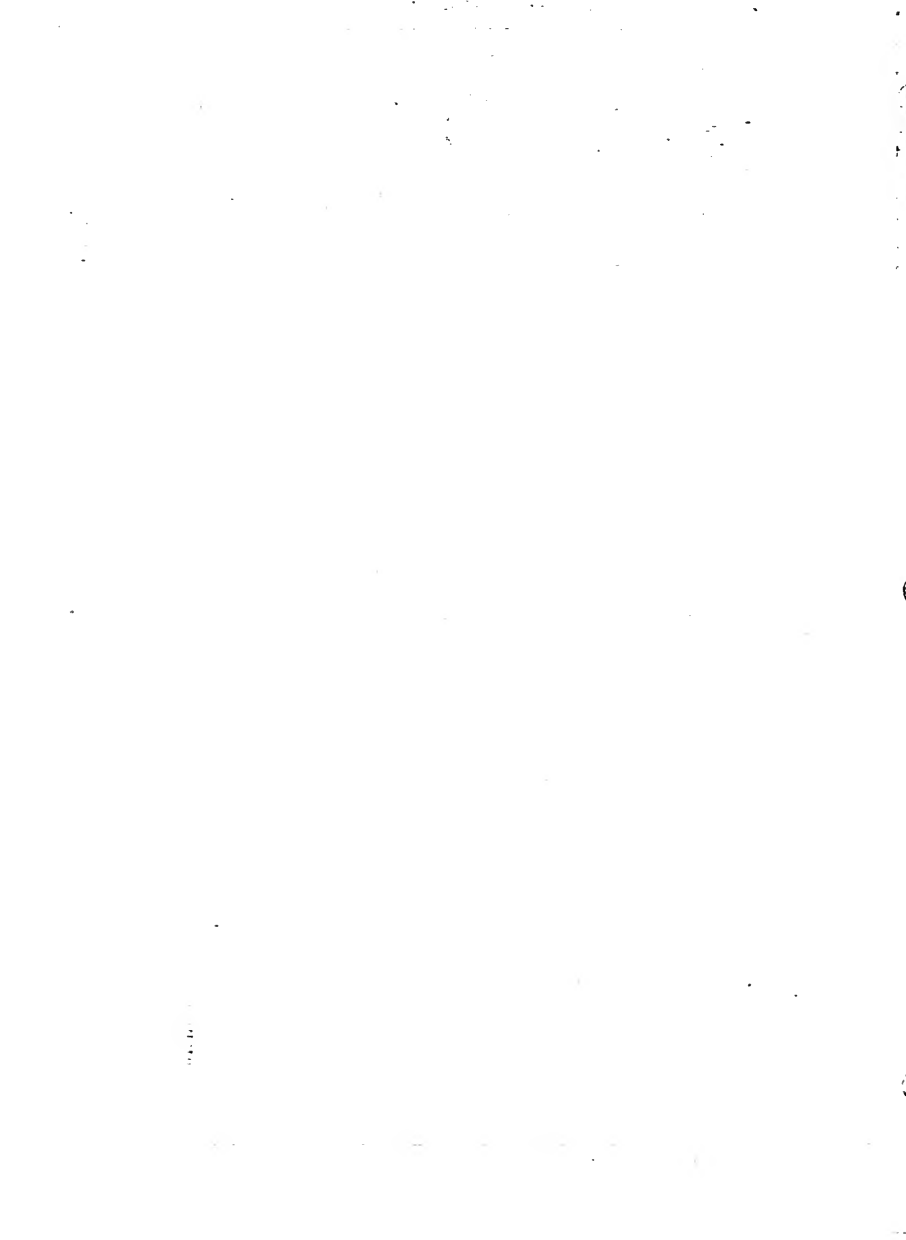
3220/3221

A design that endures, the Astro® upholstered side or arm is a classic not only because of its style but also functional. Urethane foam padded contour seat and back upholstered as specified assures comfort. Durability assured with the bright chrome 16 gauge tubular steel frame with clear plastic Lexan glides and stack brackets which allow side and arm chairs to stack 12 high on the floor.

Options are available.



3
Two-wheeler



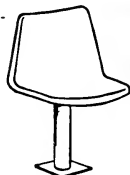
Options & Accessories

MR

4041
Removable tablet for
use with 2200 & 3220
Price \$35



4041



2200-BY



-G



-P



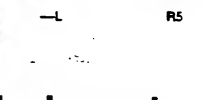
-R



-N, R4



-O



-L



-T



-S



R6

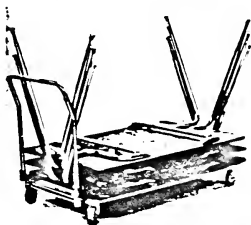


-G



R3

Materials Handling Equipment



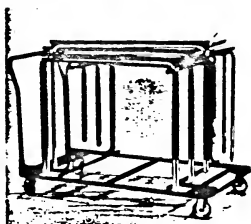
1011



2001



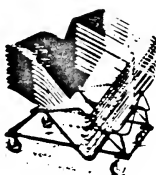
2003



1012

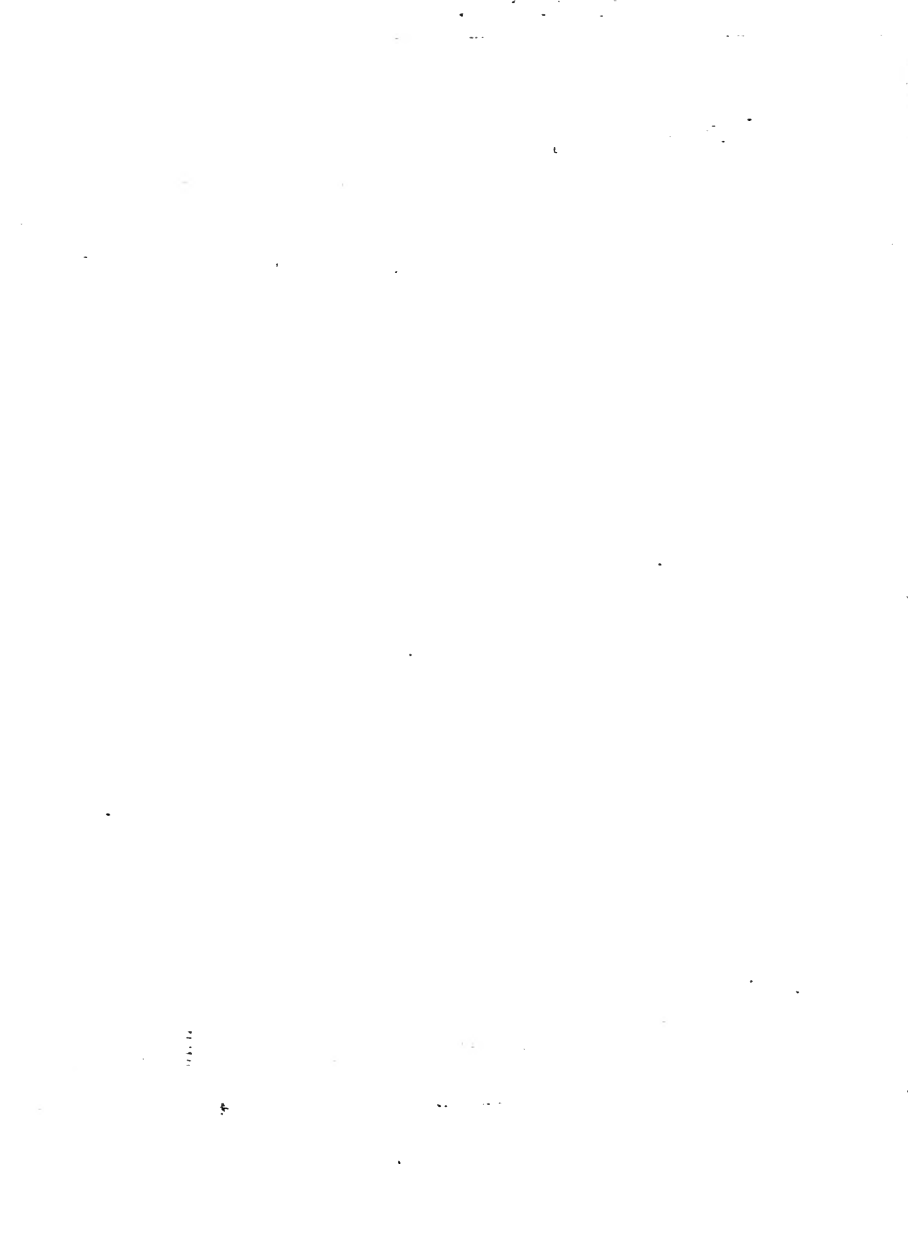


2005



2009

Model Number	Description	Price
2001	Two wheel dolly for carrying Astro® chair stacks (2017, 2200, 2900) Steel construction, ball bearing wheels Wt. 20 lb., Black epoxy	151
2003	Two wheel dolly for carrying chair stacks. Steel construction with sled for moving up or down stairs, ball bearing wheels Wt. 20 lb., Black epoxy	221
2005	Four wheel dolly for moving 4 leg chair stacks. Steel construction, swivel caster Wt. 20 lb., Bright chrome	171
2009	Four wheel dolly for "d chair" stack of 45 chairs. Steel rod/tube construction, swivel casters Wt. 30 lb., Black epoxy	201
1011	Table dolly for 1222 and 1225 tables. Steel construction, swivel casters. Transports table stacks upside down Wt. 50 lb., Black epoxy	351
1012	Table dolly for 1236 and 1276 tables, customized for table size ordered. Steel construction, swivel casters. Transports tables top up Wt. 60 lb., Black epoxy	401



SHARP

THE COMPANY THAT CREATED THE INDUSTRY®

CS-2187

Electronic Calculator

A-2

Timesaving 12-Digit Printing/Display Calculator with Cross-Footing and Dual Addition

COMPET



The key cover hides the special keys from the operator's view when they are not needed to make operation easier.



Speeds up long, time-consuming calculations using a fast printer with display and special function keys and selectors.

Versatile Application

- Cross-footing permits addition and/or subtraction of up to 13 columns of numbers and gives both vertical and horizontal totals.
- Automatic proration/distribution calculation, up to 13 entries.
- Dual addition (adding two columns of figures simultaneously) speeds up calculations dealing with debits/credits, statistical comparisons, etc.
- Average of any list of numbers with one touch of a key.

Large, Bright, Two Color Display

- Easy-to-read, 12 digit, bright fluorescent display for regular calculations.
- Automatic 3-digit punctuation, with 3-digit repeat and 3-digit item counter display for greater accuracy. Error and Negative indicator signs are displayed, in red for easy identification.

Reliable, Fast Printer

- Printout of 12 numerals and 2 symbols on a standard size roll of plain paper. Negative entries and results are printed in red.
- Automatic full punctuation of the tape makes large numbers easy to read.

Many Useful Features

- Plus equal and minus equal keys with a ridge on the right for easier operation. Multiplication and zero keys are also larger for faster operation.
- Double zero key for inputting two "0's" with one operation.
- Independently accessible 4-key memory for fast, easy memory calculations, dual addition, etc.
- Grand total key.
- Date key for printing date in red.
- Averaging key for one-touch average calculations.
- For mark-up, percent change and other calculations.
- Item counter selector for counting up/down or up only.
- Grand total selector.
- Two types of add modes: for addition/subtraction or multiplication.
- Sigma selector for first factor or second factor accumulation.
- Floating(F)/fixed decimal selector.
- Dual addition and cross footing/proration-distribution selector.

Specifications

Type:	12-digit printing/display calculator
Power Source:	AC: 120V, 60Hz For date: DC dry battery (AA type x 2)
Capacity:	Addition & Subtraction 12 digits \pm 12 digits = 12 digits Multiplication & Division 12 digits \pm 12 digits = 12 digits
Display:	Fluorescent display with automatic 3-digit punctuation, repeat (3-digit), item counter (3-digit)
Decimal Point:	Floating (F)/fixed (6-5-4-3-2-1-0) with add mode (A/+), (A/-)
Sign & Indicators:	Minus sign, Error, memory and first/second factor mode indicators.
Calculations:	Four arithmetic calculations, constant multiplication & division, power calculation, reciprocal calculation, chain calculation, add-on/discount calculation, square root calculation, percent calculation, percent change calculation, mark-up/down calculation, grand total calculation, memory calculation, cross-footing, automatic distribution, automatic proration, item addition/subtraction, dual addition, average calculation, sub-total average calculation, output override decimal, memory item count, etc.
Components:	LEI, etc.
Operating Temperature:	0° - 40°C (32° - 104°F)
Power Consumption:	22.1W
Dimensions:	264(W) x 107.5(H) x 348(D)mm 10"(W) x 4-7/32"(H) x 13-11/16"(D)
Weight:	3.0kg (6.6 lbs.)
Accessories:	Roll paper, ink ribbon and dust cover
Printer Section:	
Printable Digits:	12 numerals, 2 symbols
Printing Paper:	783 - 58(W) x 80(p)mm 2-1/4" - 2-9/32"(W) x 3-3/32"(p)
Printing Speed:	3.0 lines/sec. (average)

Calculation Examples

Cross-footing		Column No.	1	2	3	4	total
Line No.							
1			187	291	562	196	1236
2			142	384	408	201	1135
3			132	697	340	398	1565
total			461	1372	1310	793	3936

Find: 1. Horizontal Totals 2. Vertical Totals 3. Proration.

Operation	Print out	Operation	Print out
CF/PO mode, D:0 R:M, K:*, IC:*, GT:*			
(Horizontal totals)		(Vertical totals)	
001-----		004-----	
01 187+*		01 461-*	
02 291+*		02 1372-*	
03 562+*		03 1310-*	
04 196+*		04 793-*	
05 1236-*		05 3936-*	
002-----		(Proration)	
01 142+*		001-----	
02 384+*		01 461-F	
03 408+*		02 1372-F	
04 201+*		03 1310-F	
05 1135-*		04 793-F	
003-----		05 3936-F	
01 132+*		01 461-F	
02 697+*		02 1372-F	

* Design and specifications subject to change without notice.

SHARP
SHARP ELECTRONICS CORPORATION
10 Keystone Place Paramus, New Jersey 07652

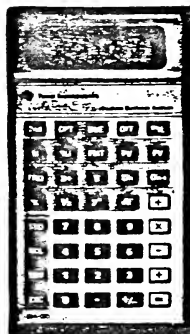
Distributed by:



BUSINESS CALCULATORS

"These calculators are in business to help you."

43



Business Analyst Quick Reference Guide

Business Analyst Guidebook



TI Student Business Analyst™

A calculator system designed to help students with their business math courses.

The TI Student Business Analyst™ is designed specifically for the undergraduate business student. The calculator together with its special guidebook make a powerful combination that can help a student expand his or her knowledge in finance, statistics and accounting.

The easy-to-use calculator has such important preprogrammed functions as: time value of money calculations, amortization balance and interest problems, interest rate conversions, statistical mean and standard deviation as well as everyday math.

When the TI Student Business Analyst™ is used with the accompanying *Business Analyst™ Guidebook*, the power of the calculator is revealed. Step-by-step problems in easy-to-understand language shows you how to get the most out of your calculator and your classes. The book briefly explains the concept in question, gives a sample problem, and shows how it is solved with the

TI Student Business Analyst™

The slimline calculator eliminates the need for many of the cumbersome charts and tables often required for financial solutions. The TI Student Business Analyst features Constant Memory™, which allows the calculator to retain data and programs even when the power is off. It also has the battery-saving Automatic Power Down™ feature which turns the calculator off after ten minutes of non-use.

The TI Student Business Analyst comes with a protective carrying case and the *Business Analyst™ Quick Reference Guide* for an easy-to-read, quick summary of the calculator's most frequently used functions.

TI Professional Business Analyst™

An advanced financial and statistical calculator for the professional graduate business student.

The TI Professional Business Analyst has preprogrammed functions for quick and accurate solutions to time value of money calculations, amortization principle balance and interest problems, net present value and internal rate of return with ten variable grouped cash flows, interest rate conversion, and statistical mean, standard deviation and linear regression. Additionally, the calculator features 32 steps of programming which allows even more flexibility in problem-solving.

The TI Professional Business Analyst is accompanied by the Professional Business Analyst Guide, which offers many practical applications on how to fully utilize the calculator's functions and features.

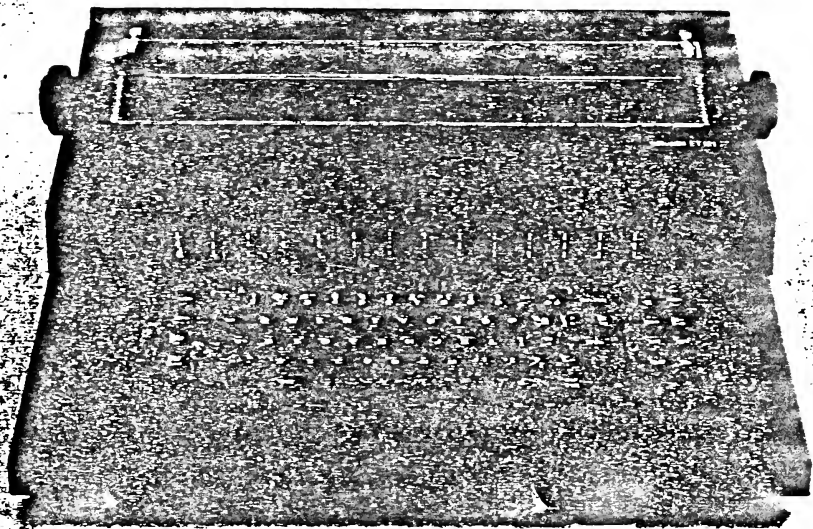
Compatible with the PC-200 portable printer, the TI Professional Business Analyst is an extremely powerful system that goes anywhere. The TI Professional Business Analyst comes with its own tilt-top case and *Quick Reference Guide* for a quick summary of the calculator's functions.



FUNCTION	TI BUSINESS ANALYST*	TI PROFESSIONAL BUSINESS ANALYST**	THE MBA**	TI-30-II	TI-30-QLR LIGHT POWERED	TI-35	TI-40	TI-54	TI-55-II	TI-57 LCD	TI-58C	TI-59
Constant	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Log				✓	✓	✓	✓	✓	✓	✓	✓	✓
Log	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
10 ^x				✓	✓	✓	✓	✓	✓	✓	✓	✓
e ^x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
x ²	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
x ³	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
√x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
√y	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
x ^y	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1/x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1/y	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
%	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Δ%	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Scientific notation				✓	✓	✓	✓	✓	✓	✓	✓	✓
Int (a integer part or fractional part)												
Absolute and Signum value												
Trig: sin, cos, tan, and inverses				✓	✓	✓	✓	✓	✓	✓	✓	✓
Hyperbolic: sinh, cosh, tanh, and inverses												
Deg/min/sec to decimal deg. conversion and inverse												
Deg. to Rad / Grad to Rad. conversion and inverse				✓	✓							
Polar to rectangular conversion and inverse												
Mean, variance, and standard deviation	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Permutations and Combinations				✓	✓	✓	✓	✓	✓	✓	✓	✓
Linear regression—trend line, slope, and intercept		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Integration												
Random number generator												
Conversions												
Metric conversion constants												
N, Si, Pmt, PV, FV	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cost, selling price, margin				✓	✓	✓	✓	✓	✓	✓	✓	✓
Internal rate of return		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Variable cash flow—net present value			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Days between dates				✓	✓	✓	✓	✓	✓	✓	✓	✓
Accumulated interest		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Remaining balance		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

*Programmable function

†Program available in optional software



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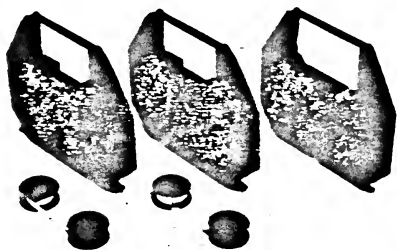
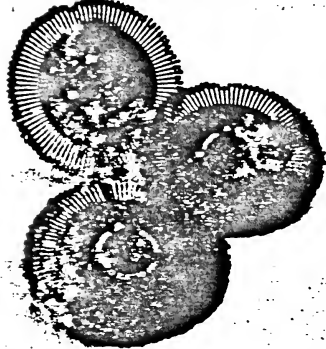
ET 121

Electronic typewriter

Three pitches: Pica, Elite, Mikron

Interchangeable «daisy wheel» printing element and ribbon cartridge

One-line memory for automatic correction of characters, words or sentences



FEATURES AND CHARACTERISTICS

Automatic cancellation on the current line of typing

The one-line memory enables characters, words or sentences on the line in process to be automatically cancelled, simply by activating the related cancel key.

Automatic return

At the end of the line, by depressing the ADJ key, the print unit automatically returns to the beginning of the next line, offering speed and ease of operation.

Title centering

By means of the CENTER key the machine will type perfectly centered titles between the margins.

Right margin alignment

The same CENTER key makes it possible to type the date, the signature or any other phrase perfectly aligned to the right margin.

Paragraph indentation

With a special key it is possible to set a temporary left margin in order to print one or more indented paragraphs.

Automatic vertical lines

The ET 121 is capable of automatically printing a vertical line at any point on the line for dividing columns when compiling lists or tables.

Alphabetic and decimal tabulation

Alphabetic and decimal tabulation are carried out automatically according to previously set stops.

Automatic relocation of typing point

After a correction has been made, a special key will automatically return the printing element to the position of the last character typed.

Multilingual capability

By depressing the KB II key and without having to change the print element, it is possible to obtain characters other than those normally available on the standard keyboard. Therefore, the secretary using one typewriter is able to type different foreign languages.

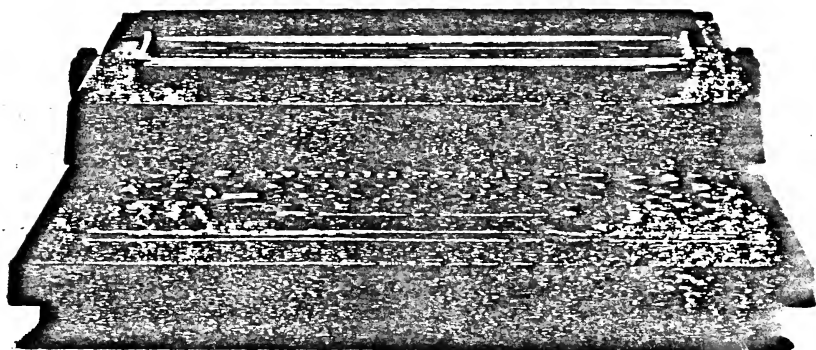


CTR BUSINESS SYSTEMS, INC.

825 S.W. 14th Ave.
Portland, Oregon 97205
227-2414

olivetti

Olivetti Corporation
155 White Plains Road
Tarrytown, New York 10591



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ET 221

Electronic typewriter with display

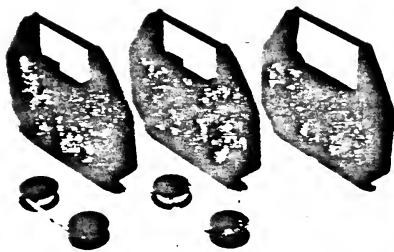
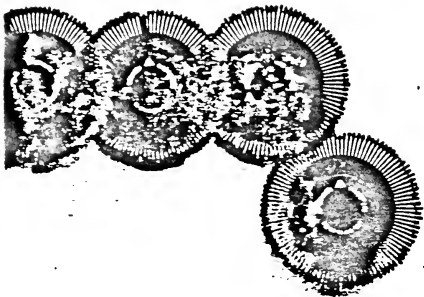
Interchangeable "daisy wheel" print element and ribbon cartridge

Display for electronic correction and operator guidance

Four pitches: Elite, Pica, Proportional and Mikron

Two line memory for automatic correction of characters, words or sentences

Memory for storing frequently used formats and phrases



FEATURES AND CHARACTERISTICS

Electronic and Automatic Correction

The characters entered are first visualized on the display which enables corrections to be made before the line is printed.

Furthermore, the two line memory enables automatic cancellation of characters, words or sentences on the preceding line as well, simply by activating the related cancel key.

Automatic Return

Once the selector is set to ADJUST, the machine automatically supplies the print unit return at the end of the last word on each line, offering speed and ease of operation.

Automatic Justification of the Right Margin

With the selector positioned to RIGHT, the machine automatically justifies copy in all four pitches.

Boldtype - Automatic Underscore - Reverse Printing

Once the proper selector is set, the ET 221 is capable of printing in boldtype, underlining automatically and printing in white on a black background (REVERSE).

Title Centering

By means of the CENTER key the machine will type perfectly centered titles in relation to the margins, over any column or to any point on the line.

Right Justification

The same CENTER key enables you to write the date, the signature or any other phrase perfectly aligned to the right margin.

Paragraph Indent

A key allows you to set a temporary margin in order to print one or more indented paragraphs with respect to the left margin, for fast production of outline formats.

Automatic Vertical Lines

The ET 221 is capable of automatically printing vertical lines to divide columns.

Normal and Decimal Tabulation

Normal and decimal tabulation is carried out automatically according to previously set stops by using two separate keys.

Automatic Relocate

After a correction has taken place, a key will automatically return the print element to the last character typed.

Column Layout

A key allows the operator to obtain the automatic distribution of spaces between columns and in respect to the margins. This feature assures a perfect page balance without having to carry out calculations or additional operations.

Automatic Paper Positioning

This provides for the automatic insertion and alignment of the paper to the point established by the operator for the beginning of typing.

Electronic End of Page

The maximum printable lines on a sheet may be selected by means of an appropriate key. A special display signal warns the operator of the imminent end of page.

Memory Storage

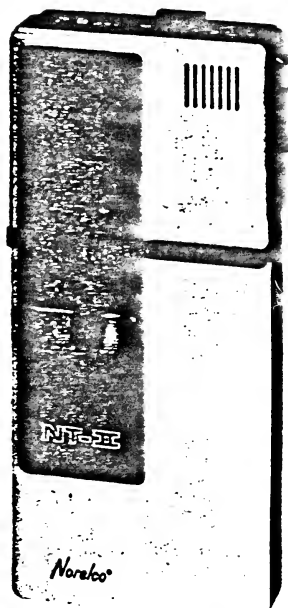
The ET 221 is equipped with a non-volatile memory that retains its contents even when the machine is turned "OFF". Its capacity is approximately 830 characters and is structured by the operator. The purpose of the memory is to increase productivity by recalling the most frequently used formats and phrases with a simple key depression.

Multilingual Capability

By setting the selector on KBII, and without having to change the print element, you may obtain characters other than those normally available on the standard keyboard. Therefore, the operator using one machine is capable of typing foreign languages. The ET 221 becomes a multilingual typewriter.

olivetti

Olivetti Corporation
155 White Plains Road
Tarrytown, New York 10591



NT-II
NORELCO

HELPS KEEP YOUR IDEAS MOVING

NORELCO NT-II

UltraSlim™



CTR BUSINESS SYSTEMS, INC.

825 S.W. 14th Ave.

Portland, Oregon 97205

227-2414

Full-featured office recording flexibility in your pocket...that's the Norelco NT-II. This newest UltraSlim recorder links a true pocket portable with the exclusive Norelco TracerTrack Indexing System.

At last, you don't have to sacrifice the efficiency advantages of indexing when you leave the office. Slim (only 3/4" thin) and light (weighing just 8.2 ounces), the Norelco NT-II easily slips into your pocket...ready anytime, anywhere to capture your important thoughts before they're lost. With the "patented Norelco TracerTrack Indexing System, your transcriptionist won't be surprised by unexpected changes in your dictation. Result—your work will be on its way faster and at less cost.

The stylish UltraSlim—with its brushed aluminum finish and rich mocha trim—is designed for the important part it plays in today's fast-moving business world. Feel how small and light it is...see how comfortably it fits into your pocket, always ready to record your good ideas. Let the Norelco NT-II make your job easier for you!

Specifications

- Maximum efficiency and job satisfaction for your transcriptionist provided by electronic indexing for instructions and letters.
- Record on the move with one-hand fingertip controls—single switch for start, stop and fast rewind, plus conveniently located record button.
- Small size (5 1/4" x 2 1/8" x 3/4") and light weight (8.2 ounces) let's you carry unit in your pocket, ready for use anywhere, anytime.
- Quick, easy placelinding...with fast forward/audible scan there's no annoying tape search.
- Rapid erasure of entire tape—or selective segments—via fast erase will wipe out confidential material or clear tape for reuse.
- Superb quality recording and playback with separate electret microphone and speaker.
- Clear recording in noisy surroundings (airplanes, cars, trains, factories, etc.) with noise screen control that eliminates background clutter.
- LED indication for recording mode and battery check.
- Stops accidental battery drain with travel lock, so unit is always ready to capture your ideas when they occur.
- Avoids "lost" recording of your important thoughts with warning tones for end of tape and missing cassette.
- About 17 average letters (thirty minutes recording time) on exclusive Norelco TracerTrack Mini-cassettes. About 34 average letters (one hour recording time) on Norelco 60-minute mini-cassettes.
- Economical, readily available, long-lasting power source: standard 9-volt battery.
- Optional telephone and conference recording to suit your special requirements.
- Compatible with all Norelco transcribing machines. Norelco Mini-cassettes and TracerTrack Mini-cassettes don't need inconvenient, clumsy or expensive adaptors.

Accessories

- Conference Microphone • Telephone Recording Adaptor • AC Adaptor • TracerTrack Mini-cassette

Specifications and prices are subject to change without notice

TracerTrack patent number 4,125,844

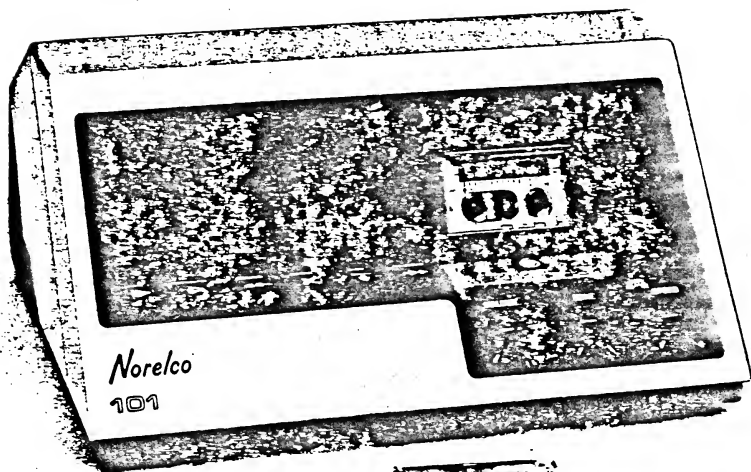
(U.I. Approved)

Norelco

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Norelco
TraceTrack
101



Norelco TracerTrack 101 transcription

Designed for quick, convenient transcription of TracerTrack mini-cassettes. A glance at the TracerTrack markings immediately shows the number and length of letters to be transcribed, the total amount of dictation time and alerts you to the location of special instructions. It's *magnetic sound you can see*. Authors use this simplified, no-index-strip system, so you get full information *before* beginning transcription. The touch of a button searches the tape in fast forward and automatically stops it at end-of-letter or special instruction points. No more manual searching, scanning, back-spacing,

listening to find the right place on the tape. Work-load distribution is simplified...priority dictation gets done first.

Except for dictation capability, the 101 has all the advanced features of the Norelco Century, including: fast forward and rewind; built-in conference speaker; volume, speed and tone controls; fast erase for tape; and built-in visual mark eraser for the TracerTrack. Plus an adjustable automatic backspace control for extra transcribing convenience. See the Norelco 101 for simplified transcription of TracerTrack mini-cassettes.

- Norelco units use the TracerTrack mini-cassette or "idea capsule"—and are completely compatible.
- Visual and electronic indexing right on the cassette; TracerTrack eliminates need to handle index strips.
- Simplified TracerTrack Indexing encourages use by the author; provides transcriptionist with all vital information at a glance.
- Automatic search and stop feature quickly locates end-of-letter or special instructions...avoids confusion and wasted time.
- Automatic rewind of tape and time scale reset always start you at the beginning of the tape whenever cassette compartment door is closed.
- Easy transcribing and maximum listening comfort offered

by tone, volume and speed controls.

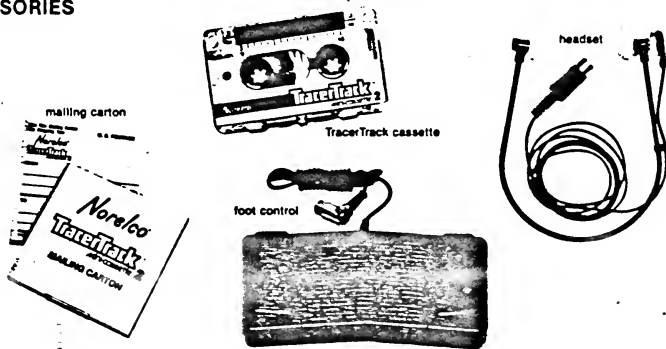
- Smooth transcription flow with automatic backspace control that is adjustable for amount of dictation review.
- Bright red LED's visually indicate which function the unit is in.
- Warning tones alert transcriptionist to approaching end of tape.
- Built-in visual mark eraser permits continuous reuse of TracerTrack cassette.
- Luxurious modern design and rich two-tone brown and silver colors.
- Dimensions: 9 1/4" x 7 1/4" x 4 1/4" (23.5cm.x18.4cm.x10.8cm.)
- Weight: 7 lbs. (3.2 kg.)

TracerTrack patent pending

Specifications and prices are subject to change without notice

(U L Approved)

ACCESSORIES



Norelco... Tomorrow's Business Equipment Today



CTR BUSINESS SYSTEMS, INC.

825 S.W. 14th Ave.
Portland, Oregon 97205
227-2414

Norelco

PHILIPS BUSINESS SYSTEMS, INC., A NORTH AMERICAN PHILIPS COMPANY, 175 Froehlich Farm Blvd., Woodbury, N.Y. 11797

Printed in U.S.A.

Copyright Philips Business Systems Inc. 1978

101 C



CTR BUSINESS SYSTEMS, INC.

A-5

Norelco[®]

MODEL NO.	DESCRIPTION	PRICE
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PORTABLE DICTATING UNITS

LFH/585	Portable Dictator.....	
LFH/NT-1/A	Portable Dictator.....	
LFH/NT/II	Portable Dictator.....	
LFH/640	Portable Dictator.....	
LFH/120	Desktop Traveler.....	

DESKTOP DICTATORS/TRANSCRIBERS

LFH/196	Dictator or Transcriber.....	
LFH/102	Dictator or Transcriber.....	
LFH/100	Dictator or Transcriber.....	
LFH/100K	Dict. or Transc.(Auto Marking)....	

DESKTOP TRANSCRIBERS ONLY

LFH/184	Transcriber Only	
LFH/187	Transcriber Only	
LFH/101	Transcriber Only	

DICTATION ACCESSORIES

LFH/0019	Microphone (fits Model 196).....	
LFH/0018	Microphone (fits Models 100 & 102).....	
LFH/0030	Microphone, Conference.....	
ME-5	Microphone, Tie or Lapel.....	
MD-C	Mini-Dictation Course.....	

TRANSCRIPTION ACCESSORIES

LFH/0103	Footcontrol (All Models).....	
LFH/ABS	Footcontrol (All Models but 101).....	
LFH/0122	Headset (All Models).....	
LFH/0122	Headset W/Tone Control (All Models).....	
EB	Headset Element.....	
EC	Headset Earcord.....	
STP	Headset Stetho.....	
MEC	Headset Foam Ear Cushions.....(per pair)..	

NORELCO ACCESSORIES

BATTERIES

006PD	9-Volt Panasonic.....
MN-1604	9-Volt Duracell.....
0641	7-Volt Rechargeable (640).....
0323	9-Volt Rechargeable (120).....

CASSETTES OR TAPES

MINI:

LFH/0003	TracerTrack.....
LFH/0006	640 w/clip.....
D-60	60 Minute Mini-Cassette.....
EL3779/64	Full Cassette for Model 82 & 84.....
EL3889/50	Empty Cassette for Model 82 & 84.....
LFH/0009	Head Cleaning Mini-Cassette.....
LFH/0012	Cassette Mates (Clips) for Model 640.....

CARRYING CASES

SN-2	Case, NT-1/A Snap.....
NR-6	Case, NT-1/A Zipper W/Belt Loop.....
NR-7	Case, NT-1/A Deluxe W/Belt Loop.....
NR-8	Case, 585 Zipper W/Belt Loop.....
NR-5	Case, 585 Deluxe W/Belt Loop.....
NR-9	Case, 640 Zipper.....
NR-10	Case, 640 Deluxe.....
NR-11	Case, 640 Deluxe (w/holes for operating)...
NR-12	Case, 120 Zipper.....

ADAPTORS

BE-1	A/C Adaptor (NT-1/A & 585).....
LFH/0116	Telephone Adaptor (Portables) Suction.....
LFH/3780/43	Telephone Adaptor (Desk Units) Suction.....
LFH/0117	Telephone Adaptor (Desk Units) Wired In....

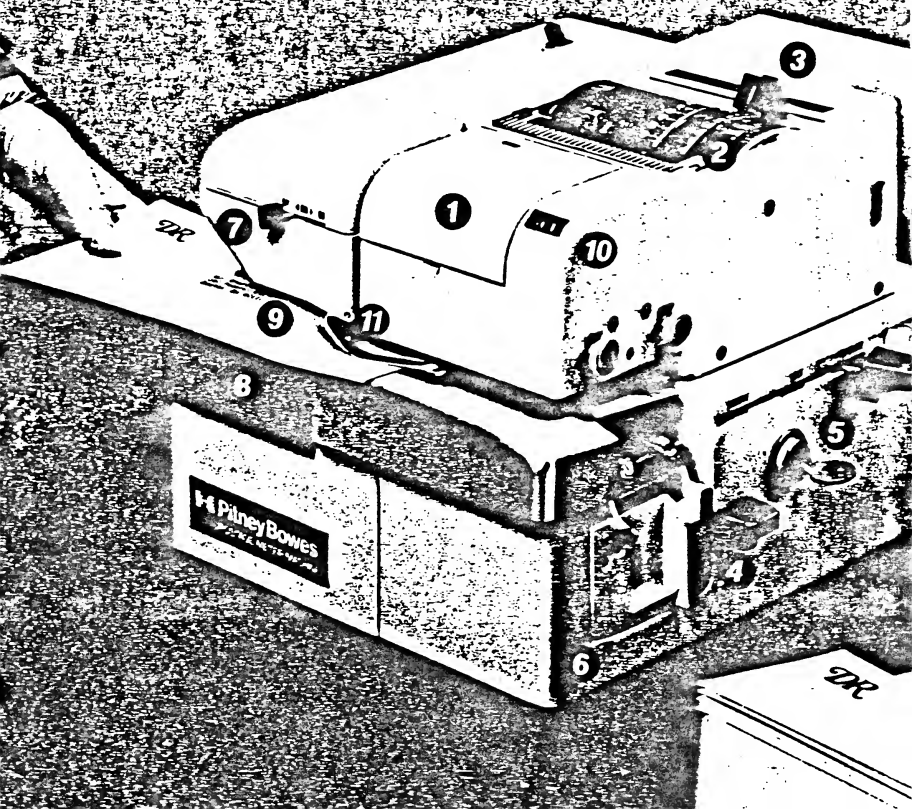
MISCELLANEOUS

LFH/0642	Battery Recharger (640 Battery Only).....
LFH/0113	Eraser, Bulk (for Idea Capsules).....
CF-3	Folder, Correspondence (Plastic)
	Folder, Pocket (Plastic) Holds 4 tapes.....
	Index Sheets (8 Log Pads of 15)..98/97.....
LFH/0042	Index Sheets (6 Log Pads of 20)..88.....
LFH/0041	Index Sheets (6 Log Pads of 50)..84.....
LFH/0040	TracerTrack Pens.....
TTP	

YOUR AD HERE



A-6



Pitney Bowes' Model 5460 handles both your letters and packages—quickly, conveniently, economically

Take a closer look at the features you'll value in the Model 5460

The speed, versatility and reliability of the PB Model 5460 postage meter mailing machine make it ideal for your office or shipping room.

For letters, just set and feed. Envelopes are meter-imprinted, sealed, and stacked in one continuous operation. Simultaneously print your own meter ad, if you like, to promote your product or service or a worthy cause.

For parcels or bulky/over-sized envelopes, simply set the amount and press a button. The 5460 will automatically deliver a meter-imprinted tape, wet or dry—in any denomination—for any weight or zone.

Easy to operate, the 5460 has features designed to give you maximum dependability and durability.

1. Date control changes date in seconds.

2. Registers automatically tally postage used and on-hand.

3. Postage-value levers for fast postage selection.

4. Automatic tape dispenser provides gummed meter tape, wet or dry.

5. Lock and warning against unauthorized use.

6. Stacker for meter-imprinted letters (no extra cost).

7. Inker control ensures uniform, sharp impressions.

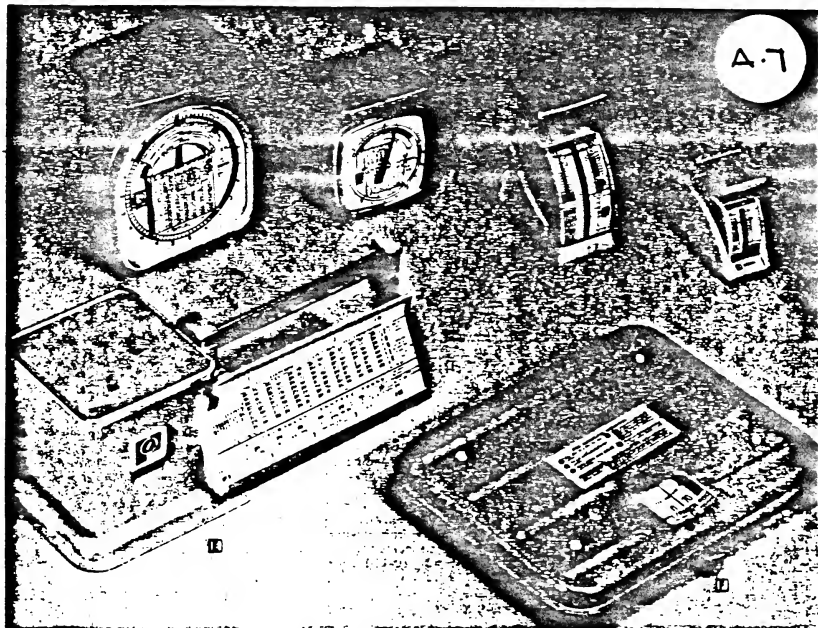
8. Water level indicator eliminates guessing.

9. Flap-sealer ensures positive, end-to-end sealing.

10. Postage-value window is convenient double-check on setting.

11. Your meter ad is printed with postage at the flip of a lever.

A-7



pelouze

- DELUXE "Y" LINE**—For office or shipping room to help expedite the shipping of merchandise, books, catalogs, and other printed material. 5 or 10 lb. "Y" line scales show first class, air mail and Parcel Post 50 lb. scales for Parcel Post only. Features hair-line indicator for exact readings, unbreakable plastic dials. Wide, welded-on platform guarantees accurate weight of package. Rugged steel body with baked on metallic brown enamel finish. All scales 6½" x 6½" (8½" high).

Cap. 5 lb. x ½ oz. **M2-Y-5**

Cap. 10 lb. x 1 oz. **M2-Y-10**

PARCEL POST ONLY—Heavyweight scale with convenient Parcel Post chart (by zones) on dial. Ideal for U.P.S. use. (Not illustrated.)

Cap. 50 lb. x 2 oz. **M2-Y-50**

- Z" LINE**—High quality scales with a budget-saving price. Offers 5 lb. capacity for office or home. Wide graduations for easy reading, positive accuracy. Gives complete information for all classes of mail, including Parcel Post. Pelouze Beige-Tone finish plastic base with matching Silver-tone platform. Size: 4½" x 4" (6" high).

Cap. 5 lb. x ½ oz. **M2-Z-5**

- COUNTLESS II**—Comprehensive yet compact. Features postage rates for all classes of mail, including Parcel Post by zones and mileage of zones. Capacity up to 2 lbs. with ½ oz. graduations with spring-tongue mechanism. Silver-tone platform with beige plastic base. Size 5½" x 2½" (6¼" high).

M2-P-2

- PETITE**—Most popular of all desk postal scales. Beautifully styled to blend with any office decor. Tan-tone finish with matching Silver-tone platform stands only 4" high yet gives complete postal rates for 1st class, 3rd class and air mail. Accurate to ⅛ oz. Capacity 1 lb. In ⅛ oz. graduations. Size 2" x 4" (4" high).

M2-P-1

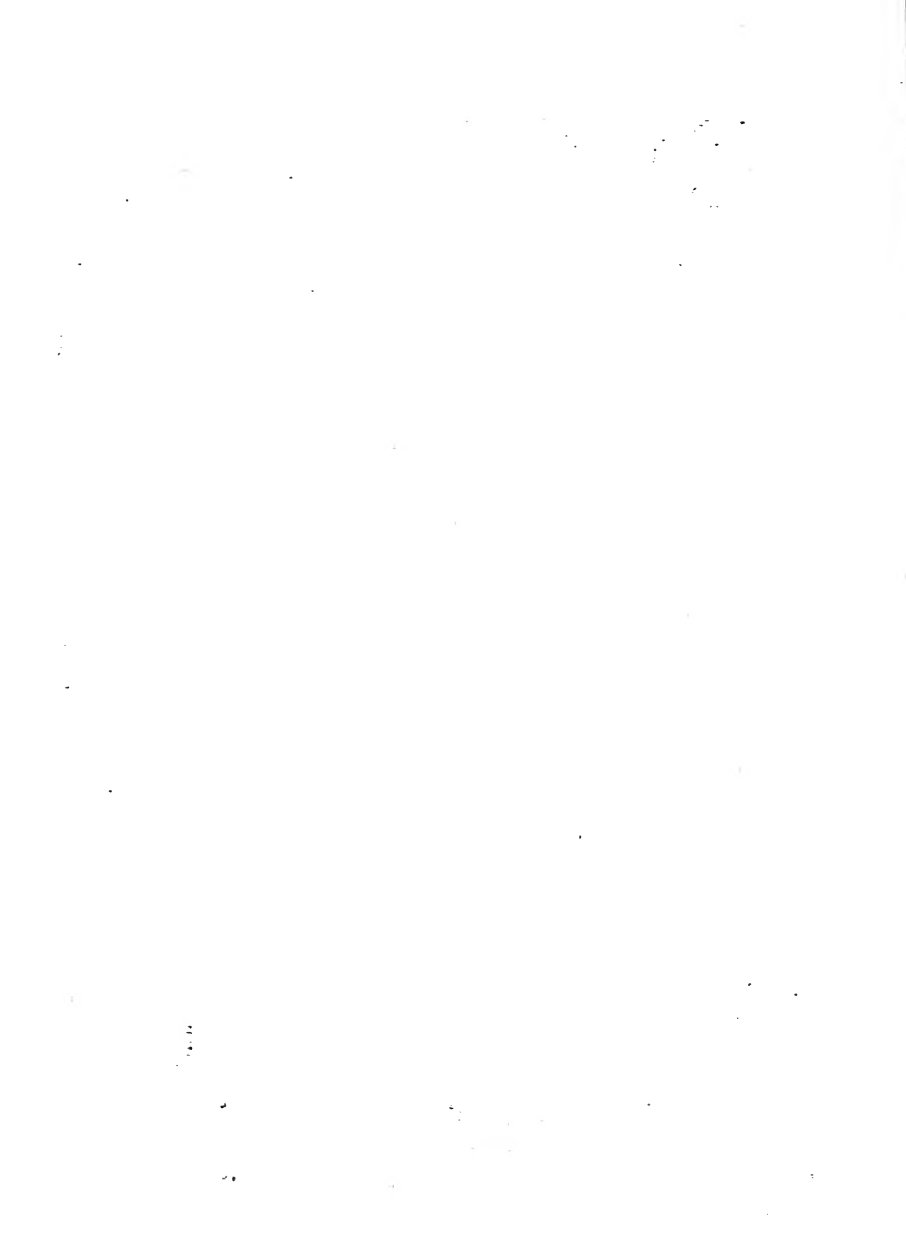
- MODEL PAA-4**—Capacity 4-lbs. x ½-oz. 1st Class/2nd Class/3rd Class/Parcel Post/Air & Priority Mail. Size 16" x 7" (7" high). Platform 6¼" x 6¼".

M2-PAA-4

- UTILITY AND UPS SCALES BY PELOUZE-BORG**—New design permits operator to place bulky items on the platform and press down on the "memory lock" control button. Weight registers accurately and remains in the dial for easy reading after package is removed. Ribbed steel platform surface for rigidity, streamlined to slip under heavy objects easily. 13½" W x 2" H x 10¼" D. 70 lb. and 250 lb. capacity, with 1 lb. graduations.

70 lbs. **M2-U-70A**

250 lbs. **M2-U-250A**



Ingento Paper Cutters. A-8

They cut everything but quality.

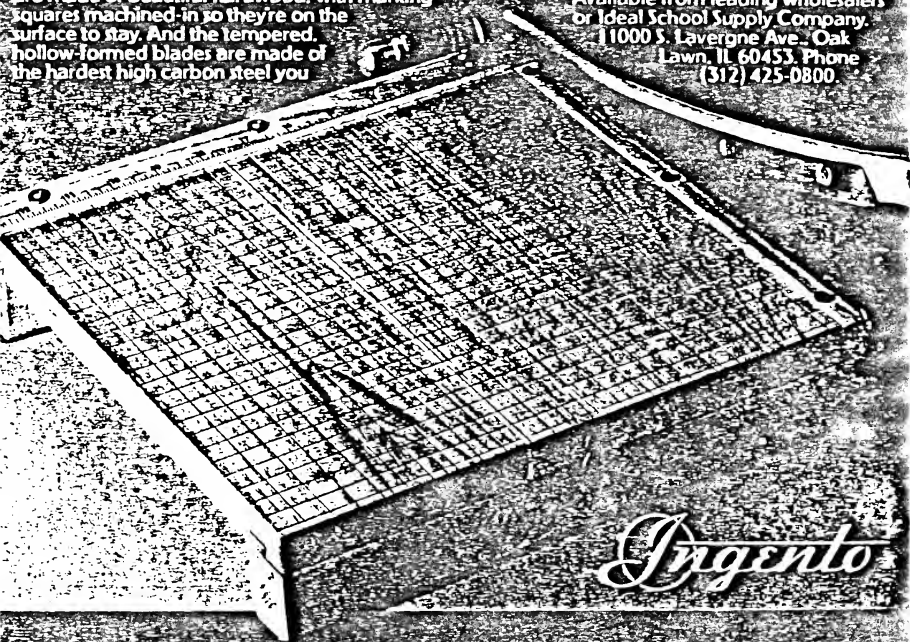
Paper doesn't come in one size or weight. That's why we make Ingento Paper Cutters in many sizes for a variety of uses. You can choose from desk-top models, table models, the Ingento Jr. or the new Ingento 1200 Series. You'll find there's an Ingento Cutter for every need.

Each Ingento Cutter is quality through and through. All styles are carefully crafted. Most are made of beautiful hardwood, with marking squares machined-in so they're on the surface to stay. And the tempered, hollow-formed blades are made of the hardest high carbon steel you

can buy. So they give sure, clean cuts every time, for a long time. Everything about Ingento, even our service, is a cut above the competition.

So before you choose the paper cutters you'll sell, take a close look at Ingento. No matter what your customers cut, from the thinnest tissue paper to the toughest cardboard, when they cut with Ingento, they'll be cutting with quality.

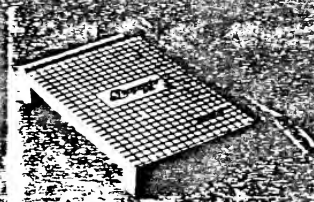
Available from leading wholesalers or Ideal School Supply Company.
11000 S. Laverne Ave., Oak
Lawn, IL 60453. Phone
(312) 425-0800.



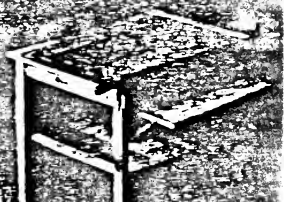
Ingento



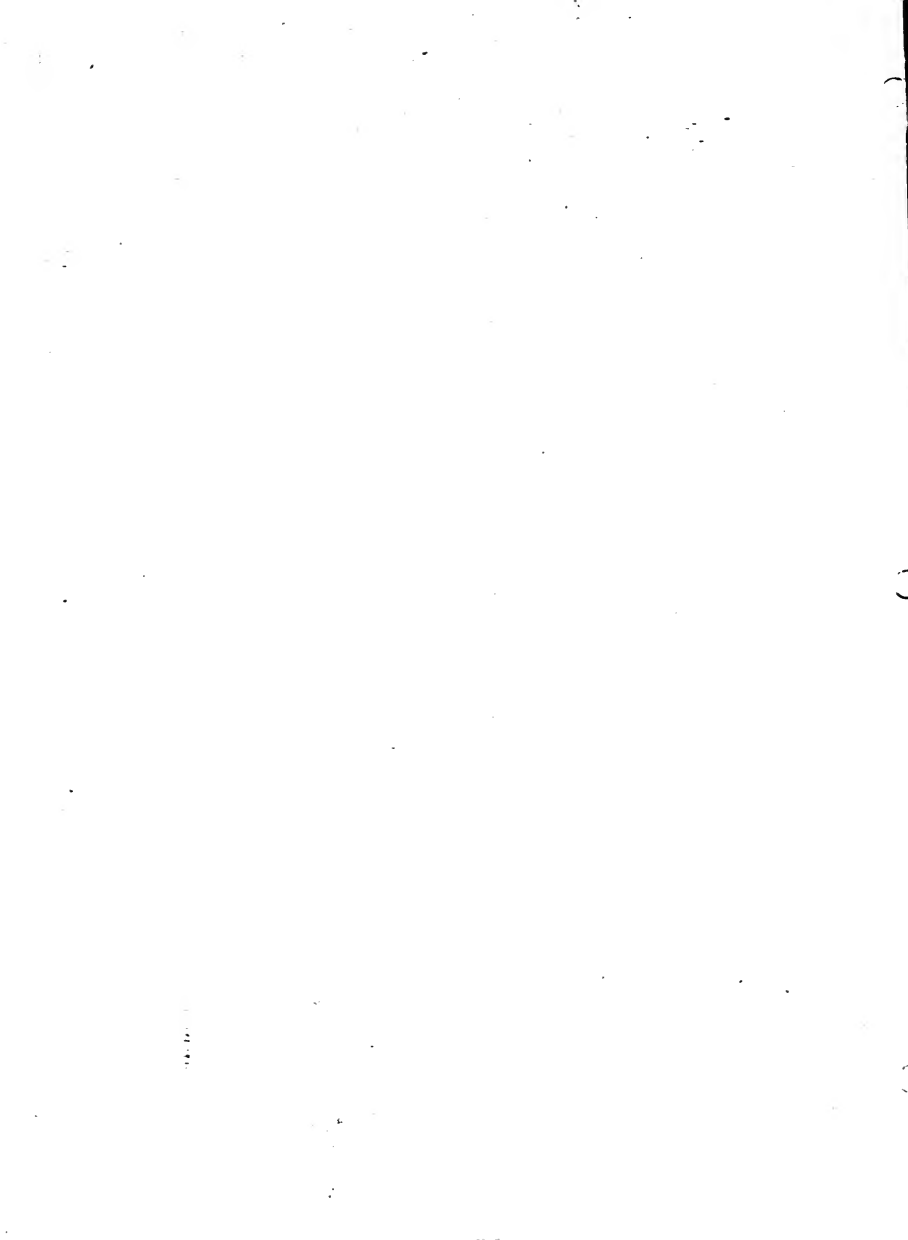
The new Ingento 1200 cuts costs



The compact Ingento Jr. cuts

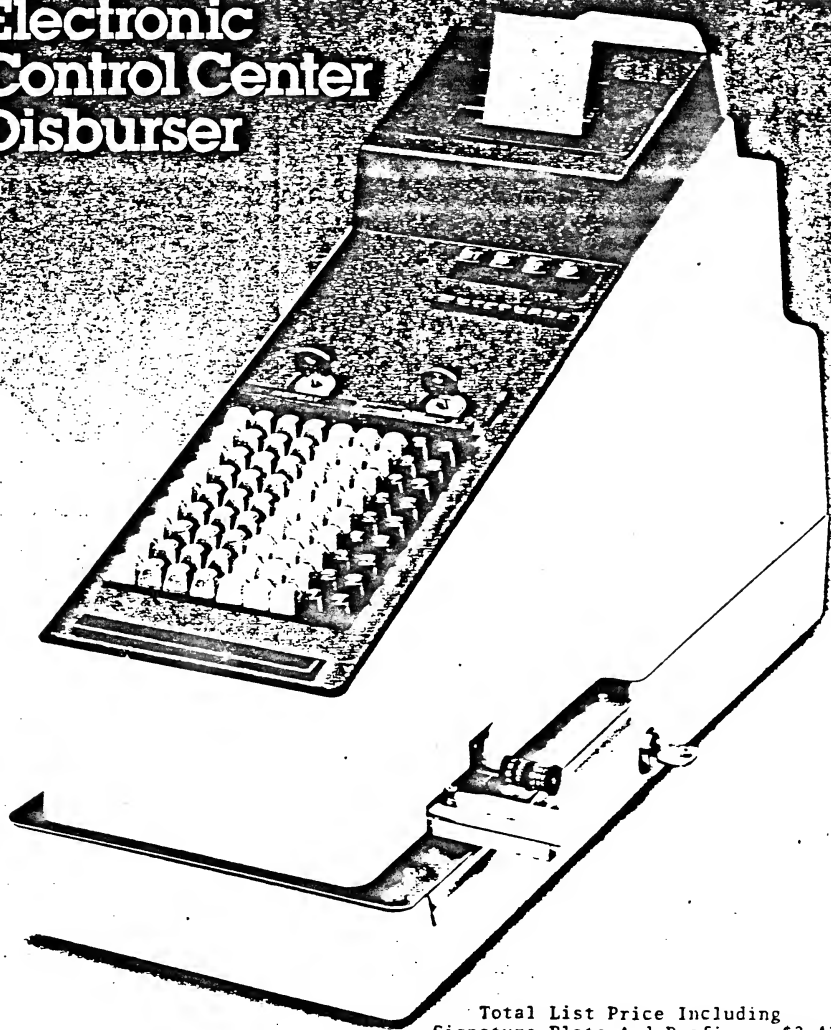


These sturdy table-size cutters



A-10

Burroughs Electronic Control Center Disburser



Total List Price Including
Signature Plate And Prefix: \$2,411.00

Electronic Memory and Printer Controls and Records All Disbursements

347.69 M◇	Sub-total since last sub-total, total or grand total
3 #	Number of cycles since last sub-total, total or grand total
117.89	Additional disbursements this run
202.77	
53.25	
5 900.00	
700.30	Total disbursements this run
1 800.79	
9 122.69 M*	Number of cycles this run
9 #	Total disbursements since last grand total
9 122.69 M%	Total number of cycles since last grand total
9 #	Grand total of all disbursements ever recorded
15 136 687.79 M÷	Grand total of all cycles ever recorded
57 803 #	Two copies can be obtained by using CLT paper



Controls.

When you authorize disbursements, and only then, your designated employee can quickly prepare checks complete with your signature. You can delegate with complete confidence, dual locks provide safe deposit security.

Executive keeps one key—operator the other—and the Disburser cannot be used without both. Accumulator totals are entered into signature control register, kept by signing official, before and after machine is used. Totals are reconciled with number of checks signed and amounts authorized for disbursement. Grand total is locked in when Executive control is in the locked position.

The result—absolute control.

Ask your Burroughs Business Forms Representative for complete details, recommendations and prices.

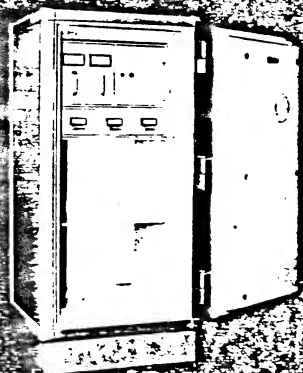
Proves.

Burroughs Electronic Disburser gives hard copy proof of money disbursed. Protected amounts are listed, added and accumulated. Number of signatures is unerringly recorded. Provides sub-totals, totals, and grand totals of amounts. All on tape. All as by-products of check preparation.

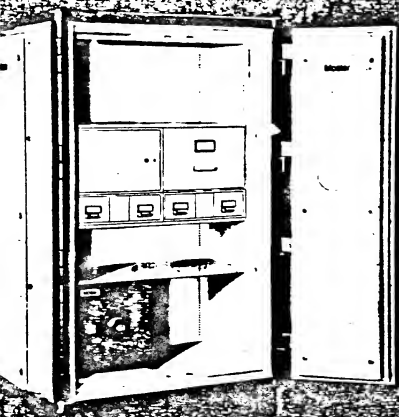
Totally tamperproof, non-resettable electronic accumulator. Energy cell memory locks in total number of cycles ever produced and accumulates disbursements. Even with power off, memory is continually energized to retain all previously stored data.

Burroughs

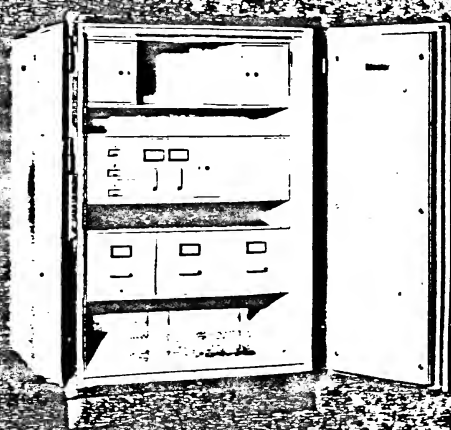
	3048A	3360A	4160A	4160A7
Height Overall	63 1/2"	75 1/2"	75 1/2"	75 1/2"
Width Overall	30 1/2"	42 1/2"	51 1/2"	51 1/2"
Depth Overall	31 1/2"	31 1/2"	31 1/2"	38 1/2"
Body Height	57 1/2"	69 1/2"	69 1/2"	69 1/2"
Body Width	29 1/2"	42 1/2"	50 1/2"	50 1/2"
Body Depth	29 1/2"	29 1/2"	29 1/2"	36 1/2"
Weight of Wheel	5 1/2"	5 1/2"	5 1/2"	5 1/2"
Saddle Height	48 1/2"	50 1/2"	50 1/2"	50 1/2"
Inside Width	29 1/2"	43 1/2"	41 1/2"	41 1/2"
Inside Depth	20 1/2"	20 1/2"	20 1/2"	27 1/2"
Spillable Co. Ft.	11.58	22.10	28.94	89.07
Distance from Bottom of Door to Floor	3 1/2"	8 1/2"	8 1/2"	8 1/2"
Left Door Swing	23 1/2"	23 1/2"	27 1/2"	27 1/2"
Right Door Swing	21 1/2"	20 1/2"	25 1/2"	25 1/2"
Projection of Door when Folded Back	7 1/2"	7 1/2"	7 1/2"	7 1/2"
Door Thickness	3 1/2"	4 1/2"	4 1/2"	4 1/2"
Handle Projection	2 1/2"	2 1/2"	2 1/2"	2 1/2"
Net Weight, Lbs.	3665	2590	2935	3285
Gross Weight, Lbs.	4720	2675	3025	3375
Weight per Sq. Ft. of Door Space—Self Empty	271	295	270	263



Cat. No. 3048A



Cat. No. 3360A



Cat. No. 4160A

Also 4160-A7

You pick the kind of protection you need. Mosler has it for you.

...and it's been tested and listed by Underwriters' Laboratories, Inc.

A

"A" Label Safes offer 4-hour protection.

"A" Label Mosler safes are identified by the "A" suffixes on catalog numbers. Models include 2048A, 3360A, 4160A, and 4160A7.

What the "A" Label Means. To qualify for the Underwriters' Laboratories, Inc. "A" label, the safe must pass these tests: Fire Exposure Test, Drop or Impact Test, and Explosion Hazard Test.

Fire exposure test: A specimen safe containing papers, records, etc., placed in a specially constructed testing furnace, must withstand two-hour exposure to heat reaching 2,000 degrees F. During this four-hour test the temperature within the safe cannot exceed 350 degrees F.

Another test takes place at the conclusion of the four-hour period. The fire is extinguished, and with the furnace still closed, the safe is allowed to absorb the intense heat of the refractory lining of the furnace until the entire mass eventually cools. The inside temperature of the safe is observed and recorded throughout the test by use of temperature-measuring devices. During this period the temperature inside the safe cannot exceed 350 degrees F. When the safe is opened, after cooling to normal temperature, the contents must not be charred, and must be entirely legible. This additional test—in which a safe may fail, due to improper quality or quantity of insulation, or to structural weakness—simulates a safe lying in the intense heat of the debris of a fire.

Drop or impact and explosion hazard test: A second safe of the same model is then subjected to sudden and intense

heat for 30 minutes in a furnace preheated to 2,000 degrees F. If dangerous gases accumulate from the insulation during this period, they will explode, destroying the safe and its contents. If no explosion occurs, the furnace temperature is reduced to 1,550 degrees F. The safe remains in the furnace for an additional 30 minutes, during which time the furnace temperature is gradually increased to 1,700 degrees F. At the end of this one-hour period, the safe is removed, and, while red hot, is dropped 30 feet on a bed of broken rock, etc. Two minutes elapse between the time the safe is removed from the furnace and the time it is dropped. The safe is placed back in the furnace, regardless of its condition, bottom side up, and reheated for one hour at temperatures reaching 1,700 degrees F. The fire is then cut off, and the safe allowed to cool to normal temperature in the closed furnace, after which it is removed, opened and inspected. To pass the test, all papers inside the safe must be entirely legible and uncharred.

Guaranteed by The Mosler Safe Co., to comply with U.S. Government specifications AA-S-81 for 4-hour class "A" safes.

Qualifies for class "B" rating under Money and Securities Broad Form Policy.

B

"B" Label Safes offer 2-hour protection.

"B" Label Mosler safes are identified by the "B" suffixes on catalog numbers. Models include: 1612B, 2016B, 3016B, 3016B5, 3020B, 4820B, 3441B1, 4833B, 6033B.

What the "B" Label means. To qualify for the Underwriters' Laboratories, Inc. "B" label, the safe must pass these tests: Fire Exposure Test, Drop or Impact Test, and Explosion Hazard Test.

Fire exposure test: A specimen safe containing papers, records, etc., placed in a specially constructed testing furnace, must withstand two-hour exposure to heat reaching 1,850 degrees F. During this two-hour test the temperature within the safe cannot exceed 350 degrees F.

Another test takes place at the conclusion of the two-hour period. The fire is extinguished, and with the furnace still closed, the safe is allowed to absorb the intense heat of the refractory lining of the furnace until the entire mass eventually cools. The inside temperature of the safe is observed and recorded throughout the test by use of temperature-measuring devices. During this period the temperature inside the safe cannot exceed 350 degrees F. When the safe is opened, after cooling to normal temperature, the contents must not be charred, and must be entirely legible. This additional test—in which a safe may fail, due to improper quality or quantity of insulation, or to structural weakness—simulates a safe lying in the intense heat of the debris of a fire.

Drop or impact and explosion hazard test: A second safe of the same model is then subjected to sudden and intense heat for 30 minutes in a furnace preheated to 2,000 degrees F. If dangerous gases accumulate from the insulation during this period, they will explode, destroying the safe and its contents. If no explosion occurs, the furnace temperature is reduced to 1,550 degrees F. The safe remains in the furnace for an additional 15 minutes, during which time the furnace temperature is gradually increased to 1,640 degrees F. At the end of this 3/4-hour period, the safe is removed, and, while red hot, is dropped



19"

DIAGONAL

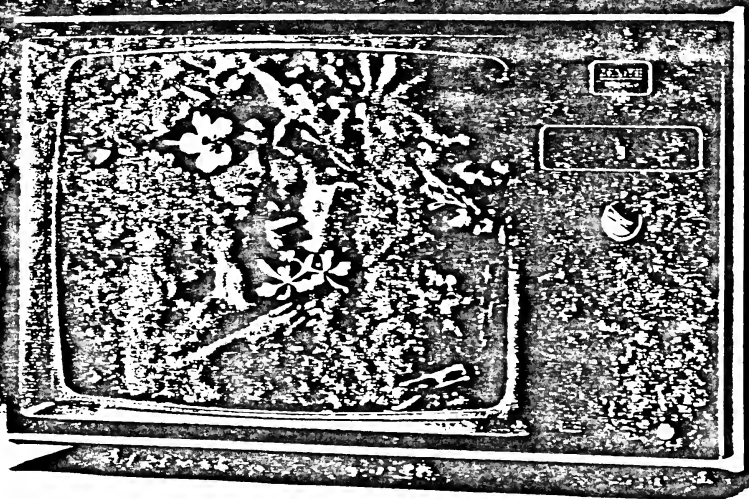
ZENITH

SYSTEM 3

FOR HOTELS, MOTELS

MODEL S1942W
THE ROOMMATE

A-12



Now you and your guests can enjoy the performance and dependability of the best Zenith ever. Zenith's System 3. That very same Zenith System 3 performance and dependability that hundreds of thousands enjoy in their homes. The handsome, durable polystyrene cabinet is beautifully finished in simulated grained American Walnut with dark Brown and brushed Nickel-Gold color trim. Back is dark Brown.

Cabinet size: 16.38" (41.6 cm) H, 26.0" (66.0 cm) W, 17.0" (43.2 cm) D. Dimensions exclude control protrusions. Weight: Approximately 54.4 lbs. (24.7 kg). Power consumption: 88 watts average. (91 watts, as measured per D.O.E. procedure.)

- Electronic Video Guard Tuning
- One-Knob 12 VHF and 6 UHF Channel Selector
- Color Sentry automatically changes picture brightness as room light changes
- Tri-Focus Picture Tube
- Triple-Plus Chassis with 4 Plug-In Modules
- Electronic Power Sentry Voltage Regulator
- Each chassis module is a complete electrical system for easier access, inspection and, if necessary, replacement
- No exposed color controls
- Push-button On/Off



The quality goes in before the name goes on*

MODEL S1942W THE ROOMMATE

Model S1942W is a 19-inch (48 cm) diagonal (184 sq. inches) Zenith System 3 receiver designed primarily for hotel/motel use. To assure optimum receiver condition in this environment, only the essential controls are accessible to the user. All other controls are located under a service cover or security panel, locked with a hidden screw (controlled access).

Automatic Fine-tuning Control—after initial fine-tuning of each channel, AFC locks in the signal to bring you a sharp, clear picture from channel to channel.

Volume Limiter Control—on front of receiver under cover. To set the limiter control, first adjust TV volume to maximum loudness. Insert a small screwdriver into slot and turn limiter control until the desired loudness has been set.

Digital True-Lock Picture Hold—locks in picture vertically, eliminating need for vertical hold control.

Surface Wave Integrated Filter/Synchronous Detector IC—provides high sensitivity and excellent selectivity, even under fringe area conditions.

Automatic Color Clarifier—demagnetizes picture tube each time TV is turned on from a cold start.

Automatic Fringe-Lock Circuit—provides superb picture stability and outstanding fringe area reception. Also reduces effects of airplane flutter and signal fading.

5" Oval Zenith Quality Speaker—rich, full tone. Acoustically matched and balanced to cabinet.

VHF/UHF Deluxe Spotlight Panel—with easy-to-read illuminated channel numbers.

Shielded Antenna Input—with a 75 ohm antenna connector. The entire input line is shielded.

10 ft. long polarized AC cord.

AC Input Requirements—120 volts (nom.), 60 Hertz AC.

Power Consumption—88 watts average. (91 watts, as measured per D.O.E. procedure.)

Listing—Underwriters' Laboratories, Inc. (UL) per standard UL1410 and Canadian Standards Association (CSA) per standard C22.2 No. 1.

Five-Year Leasing Program—A five-year leasing program is available with a comprehensive and non-deductible insurance policy. Complete entrance and other compatible communication systems can also be obtained through purchase or lease plans. Service is available from more than 15,000 Zenith service centers across the United States.

Limited Warranty—Zenith Radio Corporation warrants to the Hotel/Motel purchaser that it will supply a new or equivalent rebuilt Zenith part to replace any part which proves to be factory-defective within one year (two years in case of the color picture tube only) from the date of original purchase. Any such replacement or repaired part is only warranted for the unexpired portion of the original warranty period. This warranty does not cover installation, service labor, adjustment of user controls, installation or repair of antenna systems, or damage due to misuse, abuse, or negligence. Any alteration of the product after manufacture voids this warranty in its entirety.

ZENITH SYSTEM 3

DIAGONAL

WITH ELECTRONIC VIDEO GUARD TUNING

Because the tuners are electronic, they have no moving parts to corrode, wear or cause picture problems.

ELECTRONIC VIDEO GUARD TUNING—keeps the Zenith picture sharp and clear, not just when the set is new... but for years. In the Electronic Video Guard Tuning System, Zenith has done away with moving mechanical contacts that cause problems in the tuners... thus completely eliminating the problem of corroded or dirty contact points. In place of the contacts, the selector chooses one of a series of tuning control voltages. These voltages "instruct" the Zenith electronic "brain" which tunes in a channel without the need for any mechanical contacts. Zenith's EVG tuning system assures direct, positive signal reception every time you select a channel. It is the most dependable, the most advanced tuning system in Zenith history.

ONE-KNOB VHF AND UHF CHANNEL SELECTOR—system permits selection of up to 12 VHF and 6 UHF channels. The UHF channels can be converted to receive mid-band cable TV (conversion kit optional). With Zenith's Perma-Set Fine-Tuning Control you just turn the fine-tuning knob until you get the sharpest picture on each VHF and UHF channel.

COLOR SENTRY AUTOMATIC COLOR CONTROL—combines 8 essential picture and color sub-systems working together to bring you that great Zenith picture automatically! Think of Color Sentry as a TV control room in the set. It controls the color picture... corrects the color picture... 30 times a second—automatically! Color Sentry balances colors for lifelike flesh tones. It adjusts for too much color in the broadcast signal. It maintains pre-set contrast levels and highlights. It locks in pre-programmed color levels. All automatically. Color Sentry even changes the picture brightness as your room light changes. For more comfortable viewing. Color Sentry does it all for you—scene to scene, channel to channel, automatically.

TRI-FOCUS PICTURE TUBE WITH EFL® ELECTRON GUN—The heart of this 100% deflection picture tube is Zenith's high-resolution EFL® Electronic Gun. This gun represents a major advance in tube technology. Zenith's EFL gun concentrates the electron beam and produces a spot size that is smaller than is possible with guns used in most other systems today. The result: improved picture sharpness and enhanced highlight detail—a difference you can see. The EFL gun accomplishes this by extending the focusing action over a longer distance, using four electron lens elements compared with only two in most guns. Zenith's EFL gun also has a unique pattern of voltages within the focusing lens which minimizes electron deviation.

This Zenith-developed electron gun is an in-line gun. In this system the red, green and blue color guns are aligned horizontally and the screen pattern consists of color phosphor stripes. Each color phosphor stripe is set against a jet-black background to provide high contrast for natural, true-to-life color pictures.

Zenith's EFL® Electron Gun maintains picture sharpness, even at high brightness levels. You can have greater sharpness, without sacrificing brightness; if you want greater brightness, you don't have to sacrifice picture sharpness. Zenith gives you both—sharpness and brightness.

TRIPLE-PLUS CHASSIS—We call it TRIPLE-PLUS for 3 big reasons: 100% modular design. The Zenith Triple-Plus Chassis consists of a clean, uncluttered arrangement of modules. By comparison, the ordinary TV chassis is a maze of components, wires and hardware. Design-wise, the Zenith Triple-Plus Chassis not only looks better—it is better because it has complete systems—like the audio system and the video system—on separate modules. These "complete-system" modules are 100% pre-tested and 100% electrically aligned before final assembly. Zenith's 100% modular chassis means every part is on a replaceable module.

Far fewer inter-connections. Zenith's Triple-Plus Chassis with its 100% modular design features 4 plug-in modules with Zenith's Zero Force Positive Lock Interconnects. This design literally eliminates hundreds of component interconnections—each a potential trouble spot—each a connection that could corrode or break and cause all kinds of picture problems.

Cool-running. Heat is the enemy of TV parts—especially integrated circuits. A chassis that stays cooler is more likely to keep on performing. Specifically, the junction temperatures of integrated circuits are of critical importance. In Zenith's Triple-Plus Chassis, these critical points run cooler than comparable points in any prior Zenith chassis.

ELECTRONIC POWER SENTRY VOLTAGE REGULATOR—helps conserve energy and maintains stable voltage to the chassis at the receiver design level. Electronically self-regulating, it virtually eliminates the effects of voltage variations to provide constant voltage, which makes improved component and picture tube life possible for greater operating dependability and superb picture quality more consistently. This Zenith electronic voltage regulating system dynamically adjusts energy consumption in response to the demand of the receiver. For example, Electronic Power Sentry delivers maximum power when a bright picture is shown but minimizes energy consumption when the TV screen is black.



This instrument is engineered and manufactured to comply with all applicable safety standards of Underwriters' Laboratories, Inc. and Canadian Standards Association for radiation, fire, temperature and electrical shock.

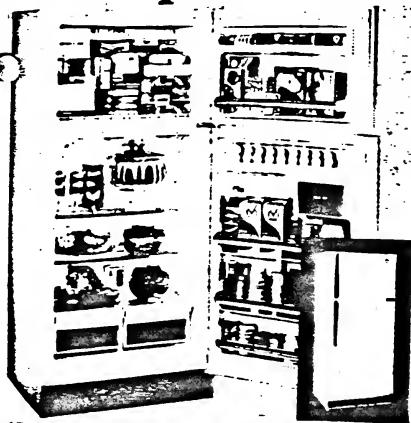


Zenith Radio Corporation
1900 N. Austin Avenue, Chicago, Illinois 60639

Availability and specifications of models are subject to change by manufacturer without notice. 9/80 Printed in U.S.A.

Whirlpool Economy Models

A-1



15.6 cu. ft. Models EHT161JM/161JT

- SPACE-SAVING 29 $\frac{3}{4}$ " WIDTH • No-Frost • 4.46 cu. ft. Freezer Space • 11.12 cu. ft. Fresh Food Compartment
- Porcelain-on-Steel Interior Liner • Factory Installed ICEMAGIC® Automatic Ice Maker on JM Model • Full-width Shelves • Separate Temperature Controls • Power Saving Heater Control Switch • Twin Crispers • Door Stops
- MILLION-MAGNET® Doors with Magnetic Gaskets.



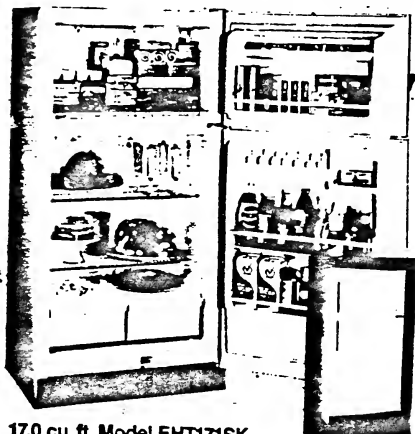
14.1 cu. ft. Model EHT141JK

- SPACE-SAVING 28" WIDTH • No-Frost • 3.45 cu. ft. Freezer Space • 10.67 cu. ft. Fresh Food Compartment
- Provision for optional ICEMAGIC® Automatic Ice Maker
- DURASHIELD® Interior Liner • Full-width Adjustable Slide-out Shelves • Up-front Separate Temperature Controls • Power Saving Heater Control Switch • Super Storage Door



17.7 cu. ft. Model EHT181JK

- SPACE-SAVING 29 $\frac{3}{4}$ " WIDTH • No-Frost • 5.19 cu. ft. Freezer Space • 12.49 cu. ft. Fresh Food Compartment
- Provision for optional ICEMAGIC® Automatic Ice Maker
- Porcelain-on-Steel Interior Liner • Full-width Shelves • Twin Crispers • Up-front Separate Temperature Controls
- Power Saving Heater Control Switch • Super-Storage Door Shelves • Covered Butter and Utility Compartments



17.0 cu. ft. Model EHT171SK

- No-Frost • 4.73 cu. ft. Freezer Space • 12.22 cu. ft. Fresh Food Compartment • Provision for optional ICEMAGIC® Automatic Ice Maker • Porcelain-on-Steel Interior Liner • Full-width Shelves • Twin Crispers • Separate Temperature Controls • Power Saving Heater Control Switch • Super Storage Door Shelves • DURASHIELD® Door Liner
- MILLION-MAGNET® Doors with Magnetic Gaskets. *Tmk

Whirlpool® Feature Comparison Chart and Dimensions:

MODEL	Control Type	Freezer (cu. ft.)	Refrigerator (cu. ft.)	Freezer Comp. (cu. ft.)	Freezer (cu. ft.)	Refrigerator (cu. ft.)	Freezer (cu. ft.)	Refrigerator (cu. ft.)	Freezer (cu. ft.)	Refrigerator (cu. ft.)	Freezer (cu. ft.)	Refrigerator (cu. ft.)	Freezer (cu. ft.)	Refrigerator (cu. ft.)	Freezer (cu. ft.)	Refrigerator (cu. ft.)	Freezer (cu. ft.)	Refrigerator (cu. ft.)	Freezer (cu. ft.)	Refrigerator (cu. ft.)
Series 1000	No Frost	25.6	10.06	29.5	Yes	11	-	Yes	41	3**	1-Port.	Fix-Port.	Yes	Yes	68"	35"***	33"	28"	49 1/2"	49 1/2"
EH22151M	No Frost	25.7	10.06	29.5	Yes	11	-	Yes	41	3**	1-Port.	Fix-Port.	Yes	Yes	68"	35"***	33"	28"	49 1/2"	49 1/2"
EH22151MT	No Frost	22.0	7.31	28.4	Yes	8	-	Yes	41	3**	1-Port.	Fix-Port.	Yes	Yes	65 1/2"	32 1/2"***	32"	28"	49 1/2"	49 1/2"
EH22151MK	No Frost	21.9	7.32	28.4	Yes	Opt.	-	Yes	41	3	1-Port.	Fix-Port.	Yes	Yes	65 1/2"	32"	32"	28"	49 1/2"	49 1/2"
EH22151MK	No Frost	19.0	6.35	24.9	Yes	Opt.	-	Yes	4	3	1-Port.	Fix-Port.	Yes	Yes	65 1/2"	32"	29 1/2"	25 1/2"	46 1/2"	46 1/2"
EH22151AK	No Frost	19.1	6.35	24.9	Yes	Opt.	-	Yes	4	-	1	Fix	Yes	Yes	65 1/2"	32"	29 1/2"	25 1/2"	46 1/2"	46 1/2"
EH22151MK	No Frost	22.3	7.57	29.8	Yes	Opt.	Yes	Yes	41	2	2-Port.	Adj-Port.	Yes	Yes	65 1/2"	32"	32"	28"	61 1/2"	61 1/2"
EH22151MT	No Frost	22.3	7.59	28.2	Yes	8	-	Yes	41	2	2-Port.	Adj-Port.	Yes	Yes	65 1/2"	32"	32"	28"	61 1/2"	61 1/2"
EH22151MK	No Frost	19.6	5.84	25.3	Yes	Opt.	Yes	Yes	3	2	2-Port.	Adj-Port.	Yes	Yes	65 1/2"	32"	29"	25 1/2"	58 1/2"	58 1/2"
EH22151MK	No Frost	17.6	5.16	22.4	Yes	Opt.	Yes	Yes	3	1	2-Port.	Adj-Port.	Yes	Yes	65 1/2"	29 1/2"	29 1/2"	25 1/2"	56"	56"
EH22151MK	No Frost	18.7	5.88	24.7	Yes	Opt.	**	Yes	3	4	2-Port.	Adj-Port.	Yes	Yes	65 1/2"	32"	29"	25 1/2"	58 1/2"	58 1/2"
EH22151MK	No Frost	19.5	5.85	25.2	Yes	Opt.	Yes	Yes	3	-	2	Adj	Yes	Yes	65 1/2"	32"	29"	25 1/2"	58 1/2"	58 1/2"
EH22151AK	No Frost	17.6	5.16	22.4	Yes	Opt.	Yes	Yes	3	-	2	Adj	Yes	Yes	65 1/2"	29 1/2"	29 1/2"	25 1/2"	56"	56"
EH22151MK	No Frost	17.2	4.75	22.7	Yes	Opt.	Yes	Yes	3	-	2	Adj	Yes	Yes	65 1/2"	32"	29"	25 1/2"	58 1/2"	58 1/2"
EH22151AK	No Frost	15.6	4.46	21.1	Yes	Opt.	Yes	Yes	3	-	2	Adj	Yes	Yes	65 1/2"	29 1/2"	28 1/2"	25 1/2"	55 1/2"	55 1/2"
EH22151AK	No Frost	14.1	3.47	20.6	-	Opt.	Yes	Yes	3-Slide Out	-	2	Adj	Yes	4-Fixed	63 1/2"	28"	28"	24"	53"	53"
EH22151AK	No Frost	19.1	5.88	25.6	Yes	Opt.	Yes	Yes	3	-	2	Adj	Yes	Yes	65 1/2"	32"	29"	25 1/2"	58 1/2"	58 1/2"
EH22151MK	No Frost	15.6	4.46	17.6	Yes	-	-	-	-	-	2	-	Yes	-	65 1/2"	29 1/2"	28 1/2"	25 1/2"	55 1/2"	55 1/2"
EH22151MK	No Frost	15.6	4.46	17.6	Yes	Yes	-	-	-	-	2	-	Yes	-	65 1/2"	29 1/2"	28 1/2"	25 1/2"	55 1/2"	55 1/2"
EH22151MK	No Frost	17.7	5.19	22.6	Yes	Opt.	-	-	-	-	2	-	Yes	-	65 1/2"	29 1/2"	29 1/2"	25 1/2"	56"	56"
EH22151MK	No Frost	17.0	4.73	18.2	Yes	Opt.	-	-	-	-	2	-	-	-	65 1/2"	32"	32"	28 1/2"	62"	62"
EH22151MK	No Frost	14.1	3.45	16.0	-	Opt.	-	-	2 Slide Out	-	1	-	Yes	-	63 1/2"	28"	28"	24"	53"	53"
EH22151MT	Cycle	14.3	3.90	15.2	-	-	-	-	2 Slide Out	-	1	-	Yes	-	63 1/2"	28"	28"	24"	53"	53"
EH22151MT	Cycle	12.4	3.34	15.0	-	-	-	-	2 Slide Out	-	1	-	Yes	-	57 1/2"	28"	27 1/2"	24"	53"	53"
EH22151MT	Cycle	12.0	2.75	14.2	-	-	-	-	2 Slide Out	-	2	-	-	-	56 1/2"	24"	30 1/2"	26 1/2"	51 1/2"	51 1/2"
EH22151MT	Cycle	14.0	2.26	19.2	Yes	-	-	-	-	-	2	-	-	-	59"	29 1/2"	31 1/2"	28"	58 1/2"	58 1/2"

* Models without reversible doors are available in right hand or left hand versions. Check with your distributor for availability.

** Freezer Door Only.

*** SEE "PA" DOOR* Refrigerator with 3 adjustable shelves in outer door.

* Tempered glass includes slide-out shelf with throw tray.

† Factory-installed through-the-door ice and water dispenser.

‡ Through-the-door fill ice dispenser lets you serve yourself ice without opening the door.

§ For hinges cap add 1/2". For a recessed installation, add 1/2" to both sides and top for ease of installation.

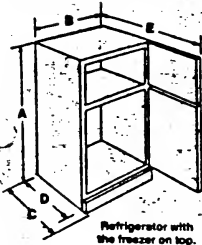
|| Additional 1 1/2" clearance on right hand side of corner installation. Models EH22151SS, EH22151MM, EH22151MT. For a recessed installation add 1/2" to both sides and 4" to height for models EE142CT, EET122CT, EHT121DT, EHT141DT, EHT141JK, EHT141AK and EHT171JK.

Ask your Whirlpool Dealer about color availability for the model of your choice. Not all models are available in all colors.

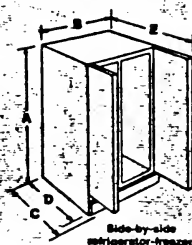


Refrigerators require a 120 V. 60 Hz. electrical connection (subject to local codes). Limited under Refrigeration Service of Underwriters Laboratories Inc.

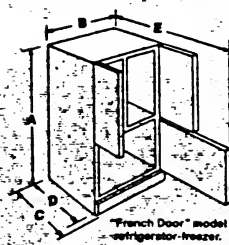
Before purchasing this appliance, read important energy cost and efficiency information available from your retailer.



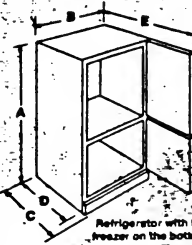
Refrigerator with the freezer on top.



Side-by-side refrigerator-freezer.



"French Door" model refrigerator-freezer.



Refrigerator with the freezer on the bottom.

Prices vary with lens selected. Prices shown are suggested prices only and are subject to the change without notice. Actual selling prices are determined by the dealer.

Kodak Carousel® Projectors Less than

Kodak Carousel 4000 projector	
BC4004 w/Ektanar C 102 mm f/2.8 lens	\$167.50
BC4000Z w/Ektanar C zoom lens	202.50
BC4001 w/o lens	137.50

Kodak Carousel 4200 projector	
BC4204 w/Ektanar C 102 mm f/2.8 lens	214.50
BC4200Z w/Ektanar C zoom lens	249.50
BC4201 w/o lens	184.50

Kodak Carousel 4400 projector	
BC4404 w/Ektanar C 102 mm f/2.8 lens	259.50
BC4400Z w/Ektanar C zoom lens	294.50
BC4401 w/o lens	229.50

Kodak Carousel 4600 projector	
BC4604 w/Ektanar C 102 mm f/2.8 lens	314.50
BC4600Z w/Ektanar C zoom lens	349.50
BC4601 w/o lens	284.50

Kodak Carousel 5200 projector with Slide-Scan™ built-in screen	
BC5204 w/Ektanar C 102 mm f/2.8 lens	359.50
BC5200Z w/Ektanar C zoom lens	394.50
BC5201 w/o lens	329.50

Kodak Carousel 5400 projector with Slide-Scan built-in screen	
BC5404 w/Ektanar C 102 mm f/2.8 lens	394.50
BC5400Z w/Ektanar C zoom lens	429.50
BC5401 w/o lens	364.50

Kodak Carousel 5600 projector with Slide-Scan built-in screen	
BC5604 w/Ektanar C 102 mm f/2.8 lens	449.50
BC5600Z w/Ektanar C zoom lens	484.50
BC5601 w/o lens	419.50

Kodak Carousel, Ektanar, Slide-Scan and Transvue are trademarks.

A3-107P

5/81

The new breed of
Kodak
Carousel
projectors

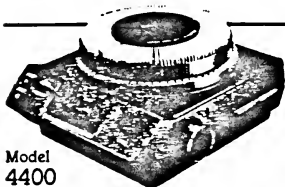
A-14

Kodak offers a line of projectors to meet your needs.

All of the Carousel projectors shown have...

A-14

- Slide tray removal with power off.
- Built-in handle.
- Rear lamp-module removal.
- Illuminated control panel.
- Reading light.
- Permanently attached power cord with storage in base.

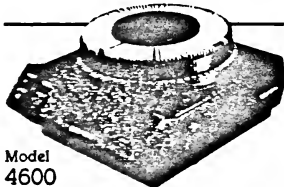


Model
4400

- Remote focusing in same control unit as forward/reverse change.
- Hi-Lo lamp switch.
- Remote accessory outlet.
- Remote control.

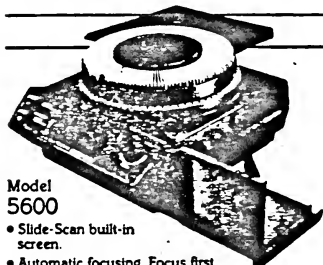
- Long-life lamp.
- Increased elevation with quick-release elevating foot.
- Dark-screen shutter latch that automatically masks the light to darken the screen when there is no slide being projected.

PLUS, the added features listed below



Model
4600

- Automatic focusing Focus first slide, then the projector automatically focuses all other slides in the same type of mount.
- Remote accessory outlet.
- Remote control.
- Hi-Lo lamp switch.



Model
5600

- Slide-Scan built-in screen.
- Automatic focusing Focus first slide, then the projector automatically focuses all other slides in the same type of mount.
- Dust cover.
- Variable-time automatic slide change with continuous settings between 3 and 22 seconds.
- Roomlight outlet.
- Spare lamp storage compartment.
- Remote focusing.
- Remote accessory outlet.
- Remote control.
- Hi-Lo lamp switch.

Carousel projectors offer dependable performance, rugged construction, and easy handling. All of these Carousel projectors, except the Model 4000, accept special presentation accessories for adding taped narrative and music synchronized to slides, and for dual projector hookups.



BUILT-IN SCREEN

DA-LITE

Audio-Visual Projection Screens

...for Perfect Picture Performance

A-15

Wide Pull Ball

Suspension
saddle for
flat hanging
of fabric

Choice of
picture surfaces

Square sizes
(Glass Beaded
and Mat White)
adjustable to
rectangular

Black
masking
borders

Chrome plated
cast end caps
with nylon
bearing

Beautiful baked
enamel finish.
Octagon case
with "no rub"
flat back

Chrome plated
square seamless
steel center tube
and extension
tube

Heavy gauge
extruded
aluminum legs.
Gable
construction
for greater
strength

Automatic
fabric lock

Automatic
leg lock

Built-in
Keystone
Eliminator

Finest Extra Heavy-Duty Tripod A-V Screen

Picture King

- Extra-Large Tripod Screen
- Sizes from 50" x 50" to 96" x 96"
- Exclusive Camlok Roller System
- Choice of Picture Surfaces

Here is the crowning achievement in an extra heavy-duty tripod projection screen. It is designed and engineered to provide portability with built-in strength to withstand the rigor of continuous use.

Its exclusive Camlok metal roller system prevents the picture surface being pulled accidentally from the roller. Built-in Keystone Eliminator on all sizes except 96" x 96".

Choose flame retardant and mildew resistant White Magic® glass beaded, non-gloss Mat White on tear resistant fiberglass fabric, or Silver Lenticular.

- 70" x 70" size can be fully opened at the highest case position, a total of 128" important with overhead projection.
- Easy to operate plunger locks for positive stops.
- Sturdy 1" square seamless chrome plated steel center tube and 1/4" extension tube stays straight even with 96" x 96" fabric at top position.
- Case adjusts from a low at the tripod leg bracket to a high at the top of the center tube.
- Steel slit with double locking end caps.

SCREEN SIZES: Glass Beaded or Mat White: 50" x 50", 60" x 60", 70" x 70", 84" x 84", 72" x 96", 96" x 96". Silver Lenticular: 50" x 50", 60" x 60", 70" x 70".

Versatol

- Tripod Screen
- Decorator Styled
- Easy Height Adjustment

A lightweight, portable, economy priced audio-visual screen of top quality construction. Automatic push button operation sets the screen up in seconds for the actual presentation. Handsome metal case. Choice of White Magic® glass beaded or non-gloss Mat White fiberglass seamless picture surface. Optional Keystone Eliminator, upper carrying case.

SCREEN SIZES: 50" x 50", 60" x 60", 70" x 70".

Challenger

- Tripod Screen • Push Button Operation • High-Low Positioning
- Ariseclac of Da-Lite's automatic push-button operated screens. Select White Magic® glass beaded picture surface for sharper, brighter pictures, or non-gloss Mat White. Both fiberglass fabrics flame retardant and mildew resistant. Wide range height adjustment. Heavy gauge metal octagon case, sturdy gable legs. Optional Keystone Eliminator, zipper carrying case.
- SCREEN SIZES:** 50" x 50", 60" x 60", 70" x 70".

Wonder Lite

Same fine screen as Challenger, same sizes, with Silver Lenticular

EXTENSION WALL BRACKETS

Heavy gauge steel, easily installed, all permit screen to clear chalkboards. No. 11 and No. 23 provide for keystone elimination. May be used for corner installation.



No. 23 ADJUSTABLE. Screen can be extended 14 1/2" to 23 1/2" from wall by simple wing and bolt adjustment.



No. 11 NON-ADJUSTABLE, permits screen to extend 14 inches from wall.



No. 6 NON-ADJUSTABLE, permits screen extension 6 inches from wall.

MODEL P-69 KEYSTONE ELIMINATOR



Model P-69 may be permanently attached by removing the gooseneck, sliding the eliminator over the extension tube. Rests snugly against bottom tube when not in use. For use on Vidio Hilo, Versatol.

extension tube. Rests snugly against bottom tube when not in use. For use on Vidio Hilo, Versatol.

SCREEN CASE ZIPPER COVERS (Heavy Duty) for Tripod Screens



Sizes: 50" 60" 70" 84" 96"

Strong, attractive, Da-Lite screen covers protect all popular size tripod screens. In seconds, screen slides into heavy fabric cover with its handy zipper closure. Handle exposed for easy carrying.

TILT LOCK For Keystone Elimination



Permits holding back bottom of screen in tilted position to eliminate keystoneing.

Use with Vidio B, Selecta Model B, Classic, or Glass-Beaded Wall/Ceiling Screens.

T-BAR SCISSORS CLIP For Dropped Ceilings



For suspending Model B and similar size screens from dropped ceilings. 50 lb. cap.

Use with Vidio B, Selecta Model B, Classic, Classic II, Electrolite Screens. 50 lb. load capacity.

REPLACEMENT SURFACES

Includes slot pockets and extra fabric for roller wrap. With masking borders.

For Tripod or Wall Models
Glass Beaded or Mat White

SCREEN SIZES: 50" x 50", 45" x 80", 80" x 60", 60" x 70", 70" x 70", 63" x 84", 84" x 84", 40" x 96", 72" x 96", 66" x 96".

SILVER LENTICULAR

SCREEN SIZES: 50" x 50", 80" x 80", 70" x 70". Can be used only on screen mounting with tension devices.

Specify for Model C, Senior Electrol, Executive, BoardRoom or Cosmopolitan, Glass Beaded or Mat White

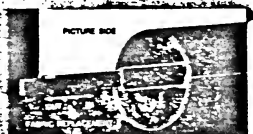
SCREEN SIZES: 6' x 8', 8' x 8', 7' x 9', 9' x 8', 10' x 10', 9' x 12', 12' x 12'. Other sizes on request.

SCREEN MATERIALS ONLY

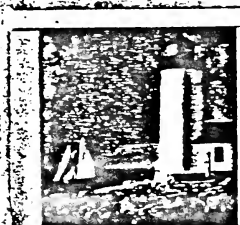
Sold per sq. ft.

Glass Beaded Mat White

Silver Lenti. Da-Tex Rear Proj.



Exclusive Camlok Roller System with metal roller prevents picture surface from pulling off roller. Standard on Vidio screens up to 70" x 70".



Electrolite

- Automatic Electric Screen
- Convenience Features • Easy to Install
- May be Stopped in any Position

There is luxury in complete automatic operation, convenience, and dramatic impact—at an economical price. The Electrolet in its attractive textured beige vinyl clad metal case installs to wall or ceiling with 2 hooks. Complete with remote and switch. Plugs into any 115 volt AC 60 cycle outlet.

It goes down or up, and out of sight, at the simple flick of its three position switch. No manually operated screen offers so much value with maximum economy and long life.

Size: 50" x 50", 50" x 80", 70" x 70"
Choice of White Magic, glass beaded or non-glass Mat White surface, both flame retardant and shatter resistant. Complete with Black Masking Borders.

PERALL DIMENSIONS: Case length equals fabric width plus 9 1/4". Case width 3 1/4". Case height 4 1/4".

Low Voltage

MULTIPLE CONTROL SYSTEM



Fingertip, multi-station control for Da-Lite projection screens is a major breakthrough in the operation of automatic electric screens. The complete Low Voltage Multiple Control System consists of a 24-volt Control Unit conforming to the National Electric Code and two directionally lighted Control Stations with color coded wire leads to facilitate connection. Additional Control stations may be added as required.

Da-Lite portable Fast-Fold® front and rear projection screen literature available on request.



DA-LITE SCREEN COMPANY, INC.

STATE ROAD 15 NORTH, P.O. BOX 137, WARSAW, INDIANA 46580

PHONE 219/267-8101 TELEX 23-2649

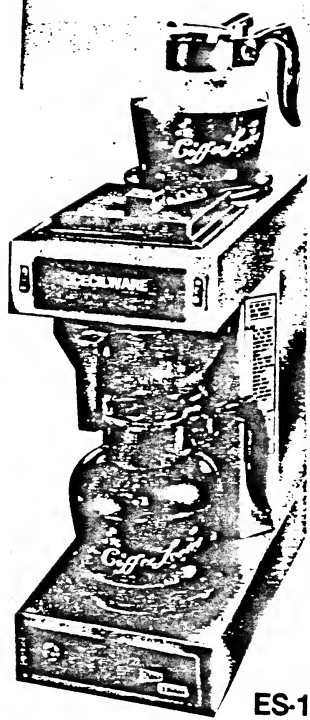
Prices and specifications subject to change without notice

Form No. 82-06

CECILWARE

ENERGY SAVER ES-12 STAINLESS STEEL COFFEE BREWER

- S/S construction throughout
- Fresh water system
- No water storage tank
- Instant recovery—with unique heat pump system



ES-12

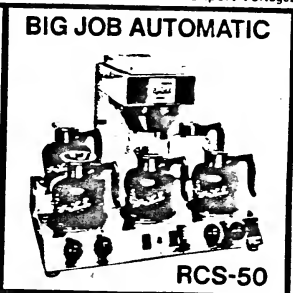
Pour-Over		Choice of or Automatic	
ES-12—Pour-Over Coffee Brewer Plug-In — 115V no plumbing!		ES-12A—Automatic Coffee Brewer with unique back-up system (plumbed in).	
Dimensions:		Dimensions:	
Width:	8"	Width:	8"
Depth:	15"	Depth:	15"
Height:	18"	Height:	18"
Approx Ship. Wt.:	20 lbs.	Approx. Ship. Wt.:	22 lbs.



OCS-12



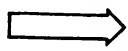
OCS-1200



RCS-50

All Models Available in Export Voltages

Cecilware's complete line of Coffee Brewers listed on the following pages offers you the widest range of Pour-Overs and Automatics for any operation where Coffee Brewers are needed.

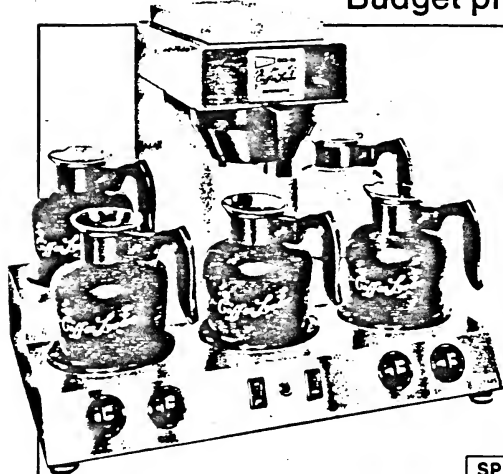


COFFEE
BREWERS
COOKING
EQUIPMENT

Cecilware

RCS-50 Automatic Coffee Brewer

Budget priced!



Cecilware's RCS-50 is the ultimate in trouble-free brewing. Push-button operation, with an automatically locked in brewing formula and mistake-proof controls for great, hot coffee every time. A heavy duty, high capacity, quality brewer—with a budget price that will surprise you.

FEATURES

- ▶ Push-button brewing—brews full bodied, perfectly blended coffee, AT THE PUSH OF A BUTTON
- ▶ Solid-state electronics timer—automatically controls brewing cycle
- ▶ High precision Robertshaw thermostat
- ▶ Brews with 100% labor-saving Tossaway Paper Filters
- ▶ Chromolox heating and warming elements
- ▶ Stainless steel construction throughout
- ▶ Quick-Boil element for tea water

BONUS EXTRA!
5 FREE decanters.

NOTE: For best results, use Cecilware
TOSSAWAY® PAPER FILTERS A-12

SPECIFICATIONS

Dimensions U.S. Metric
Width: 24" 66 cm
Depth: 19" 48 cm
Height: 21" 54 cm
Ship. Wt.: 50 lbs. 25 mg.

NOTE: Requires 1/4" water line

Performance
Brew Time: 3 1/2 minutes
Electrical Data
3625 watts, 120/208V
3625 watts, 120/240V
A.C., 60 Hz, 3 wire
Also available in
export voltages.

GLASS DECANTERS



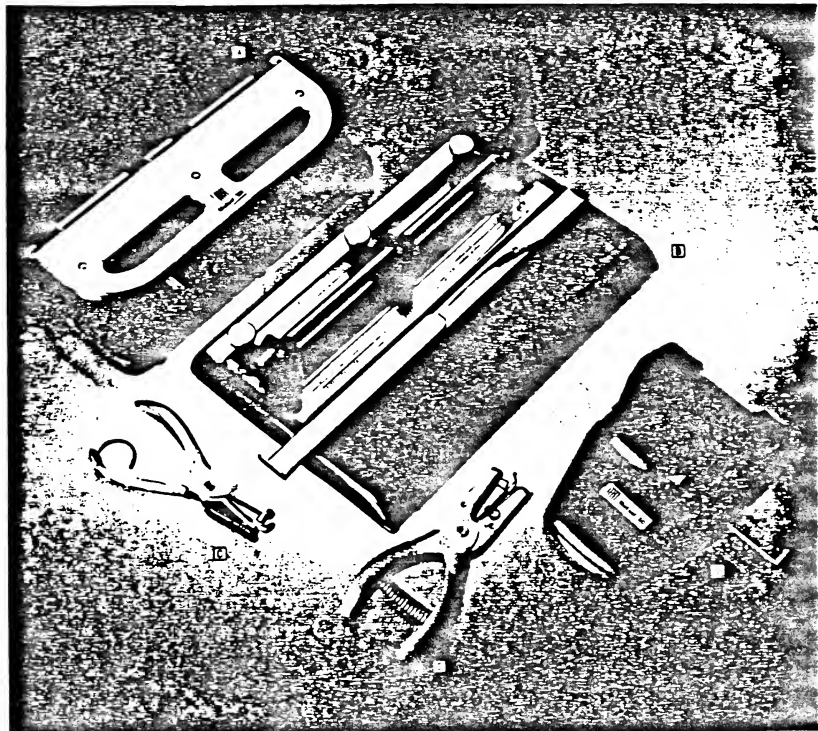
MODEL CBL

The standard in glass decanters. Beautifully styled disposable decanter that adds a special touch to coffee service. Easy-pour with patented "O-Ring" construction and riveted handle. The bowl is made of Corning's Pyrex® glass. Private label decanters are also available.

TOSSAWAY® PAPER FILTERS FOR COFFEE BREWERS



Model No.	Size	Dimensions
A-12	12 Cup	4 1/4" Bottom x 2-5/8" Sidewall
U-12	12 Cup	3 1/4" Bottom x 3-1/8" Sidewall
A-10	8-10 Cup	3" Bottom x 3" Sidewall



A CENTAMATIC HEAVY DUTY MULTIPLE HOLE PUNCH BY ACCO—Punch one to four $\frac{1}{2}$ " round holes by adjusting four ballbearing selectors. Takes sheet sizes from $5\frac{1}{2}$ " x 3" to 12" x $9\frac{1}{2}$ ". The larger holes make page turning easier. Capacity is 25 sheets of 16 lb. paper. Black steel base $5\frac{1}{4}$ " x $9\frac{1}{4}$ ". Nickel plated hand lever and guides.

Permanently aligned punch heads insure holes are punched only where you want them. Exclusive Centamatic® feature automatically centers papers for punching.

H2-74300

B 3-HOLE PUNCH BY MASTER PRODUCTS—Fully adjustable. Punches $\frac{1}{8}$ " round holes through $\frac{1}{8}$ " thickness from finest tissue to pressboard. Incised, calibrated scale, slide guide centers sheets up to 15". Features long leverage handle, heavy steel base and removable chip pan. 30 sheets Hammertone black.

H2-3-25

mcgill

C GEM PAPER PUNCH—Popular, low-priced, top-quality nickel plated steel punch ideal for punching business forms, report forms and other loose-leaf sheets. Knurled handles with finger ring for a firm grip and easy carrying. Equipped with handy spring-action, see-through clipping container with gauge line for proper punching of loose-leaf sheets.

$\frac{1}{4}$ " round hole . H2-MG403-R

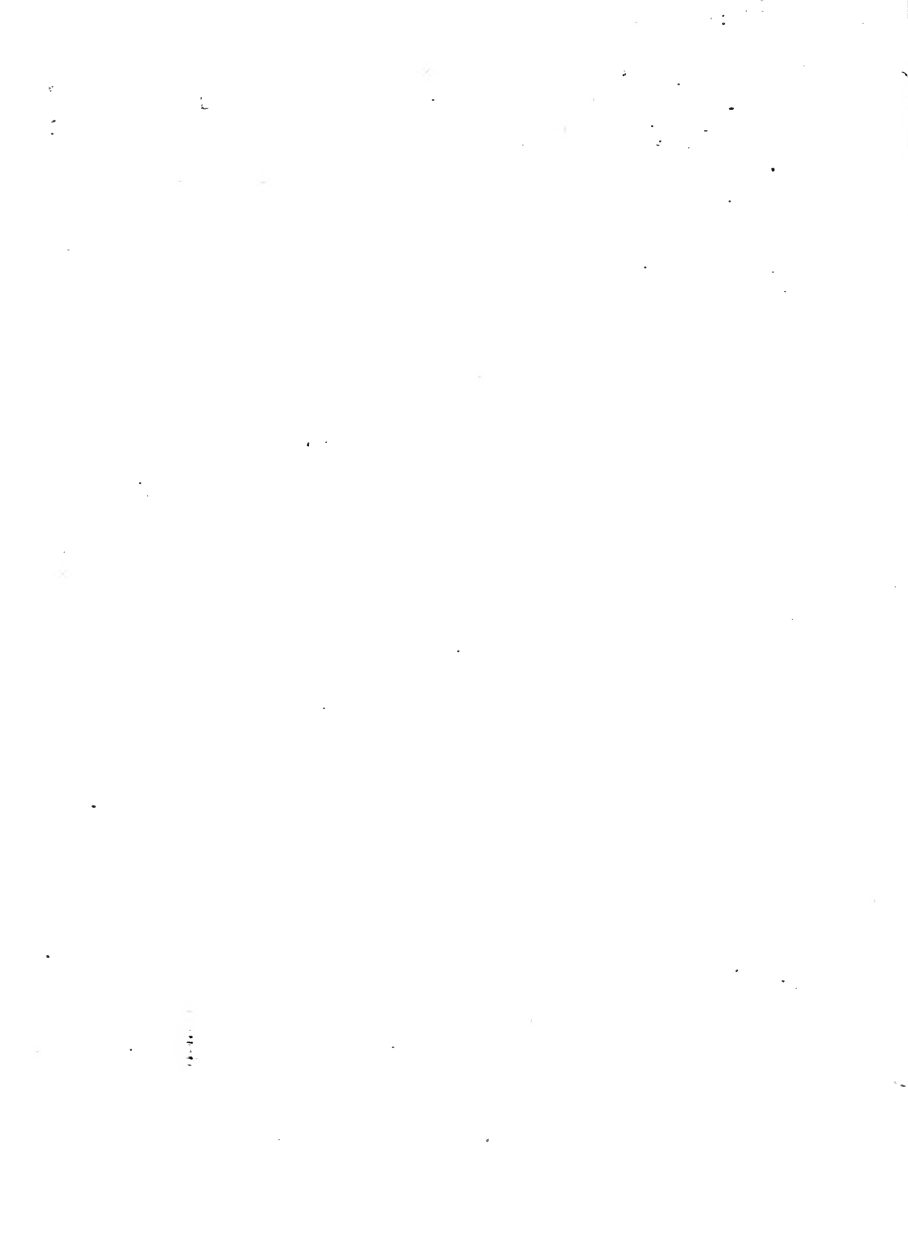
mcgill

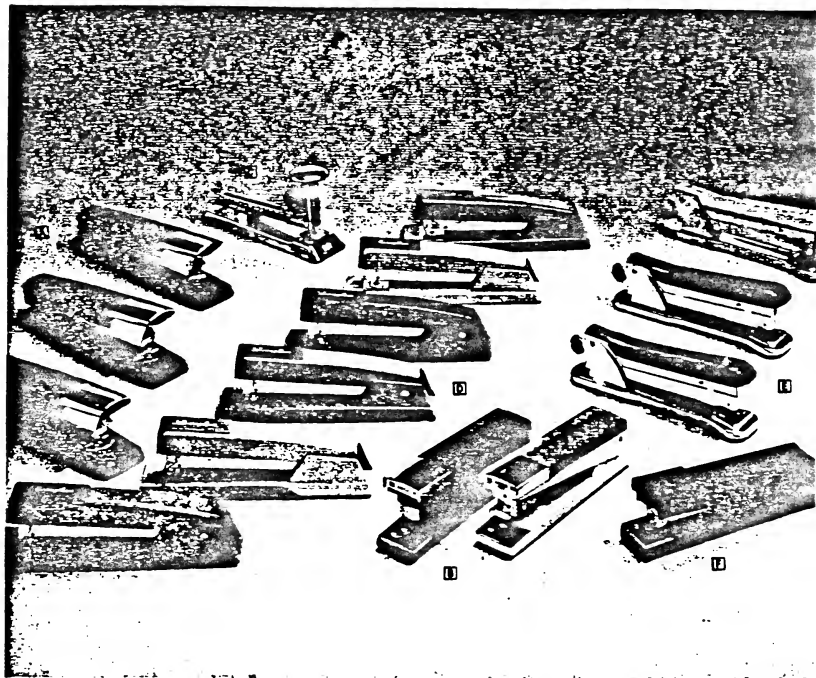
D PAPER KING PUNCH—With adjustable paper gauge for easy viewing and spacing. Compression spring and soft plastic-covered handles assist you in operating punch. Nickel plated steel for strength under hard use. Chip receptacle keeps chips from scattering. Reach is $1\frac{1}{4}$ ". Punches $\frac{1}{8}$ " and $\frac{1}{16}$ " diameter hole and is $5\frac{1}{2}$ " long overall.

$\frac{1}{4}$ " H2-503

E QUALITY 2-HOLE PUNCH BY ACCO—Accuracy and efficiency at a popular price! Punches 25 sheets of 16 lb. paper with two $\frac{1}{4}$ " round holes at $2\frac{1}{4}$ " center to center spacing. Heat treated die plates, a feature of higher priced punches. Handle hold down latch for storage. Strong pressed steel base. Size $4\frac{1}{2}$ " x $6\frac{1}{2}$ ".

Ebony ... H2-74050





- A** SWINGLINE 333 OPEN CHANNEL LOADING STAPLER—An outstanding stapler engineered for easy and effortless fastening. Shiny chrome cap and trim sets off handsome Ebony or Walnut finish top. Base is die-cast metal with a baked lacquer finish.
- | | |
|--------------|-----------|
| Number | |
| Walnut/Brown | H1-D333-B |
| Walnut/Ebony | H1-D333-H |
| Ebony/Smooth | H1-333-EY |

- I** ACCO 20 FRONT LOADING CHANNEL STAPLER—Jam-proof, front loading channel pops out at the touch of a finger. Made to the exacting standards of a precision instrument.

Color/Finish	Number
Black/Charcoal	H1-73201
Brown/Beige	H1-73208

- D** PILOT STAPLER TACKER BY ACE—All chrome plated finish, 3 1/2" throat depth. With Tacker
- | | |
|---------|--------|
| Feature | H1-404 |
|---------|--------|

swingline

- D** 747 OPEN CHANNEL LOADING STAPLER BY SWINGLINE—Standard staplers all load with full strip of 210 standard staples. Movable anvil for temporary and permanent fastening. All models listed may be used for tacking. Red dot appears when it's time to reload. Stapling head is 15% heavier gauge steel. Length 8 1/2", throat depth 4". Six attractive colors.

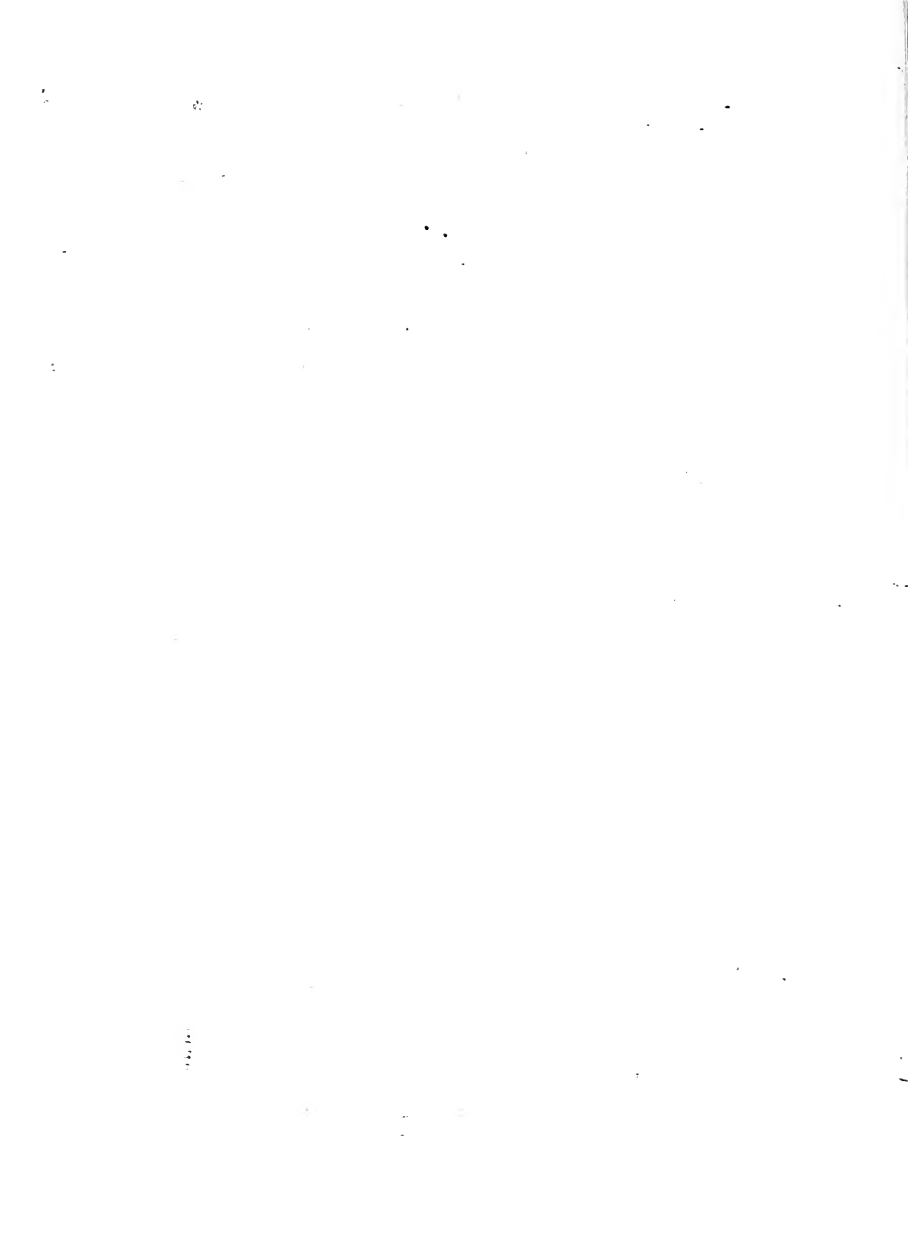
Blue	H1-747-BE	Brown	H1-747-BN
Beige	H1-747-BGE	Green	H1-747-GN
Black	H1-747-BK	Gray	H1-747-QY
All Numbers			

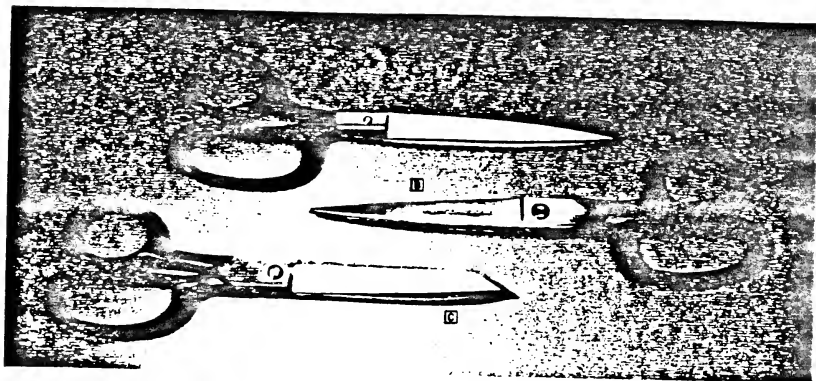
- E** ACCELINER 502 BACK LOADING CHANNEL STAPLER BY ACE—Chrome plated base and trim.

Color	Number
Black	H1-502-BK
Walnut	H1-502-WT
Beige	H1-502-BGE

- F** REXEL 61 JUPITER PUSH-BUTTON LOADING EXECUTIVE STAPLER—Loads at the touch of a button. Beautiful woodgrain & black design. All-steel construction. Reversible anvil for pinning and stapling. Opens for tacking. Full replacement, lifetime guarantee.

Color/Finish	Number	Each
Woodgrain/Black	H1-61-BWN	\$18.95





1 OFFICE SHEARS BY CLAUSE CUTLERY—Made of special cutlery steel featuring double sharp point for cutting card and paper stock. Has nickel plated blades and black enameled handles. 6 to a box.

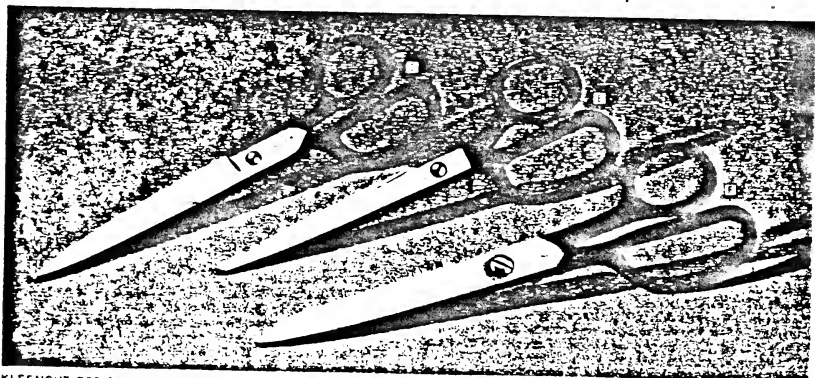
Full Length	Cut Length	Number
8"	4 1/2"	H3-3768 ...

2 UTILITY SHEARS BY CLAUSE CUTLERY—These shears are heavily constructed with reinforced clip point for cutting most any heavy material. Double plated—chrome over nickel—blades, for maximum rust protection. Black enameled handles. 6 to a box.

Full L.	Cut L.	Number
7"	3 3/4"	H3-3217 ...
8"	4"	H3-3218 ...

3 HEAVY-DUTY STRAIGHT TRIMMERS BY ACME UNITED—Features tension adjustment for cutting varying thicknesses cleanly, easily. Heavy cast steel with black enameled handles and nickel-plated blades. 6 to a box.

Full L.	Cut L.	Number
7"	3 3/4"	H3-U-1132-7 ...
8"	3 3/4"	H3-U-1132-8 ...



4 KLEENCUT OFFICE SHEARS BY ACME UNITED—Heavy duty, cast steel shears. Black enameled handles, nickel plated blades. 6/bx.

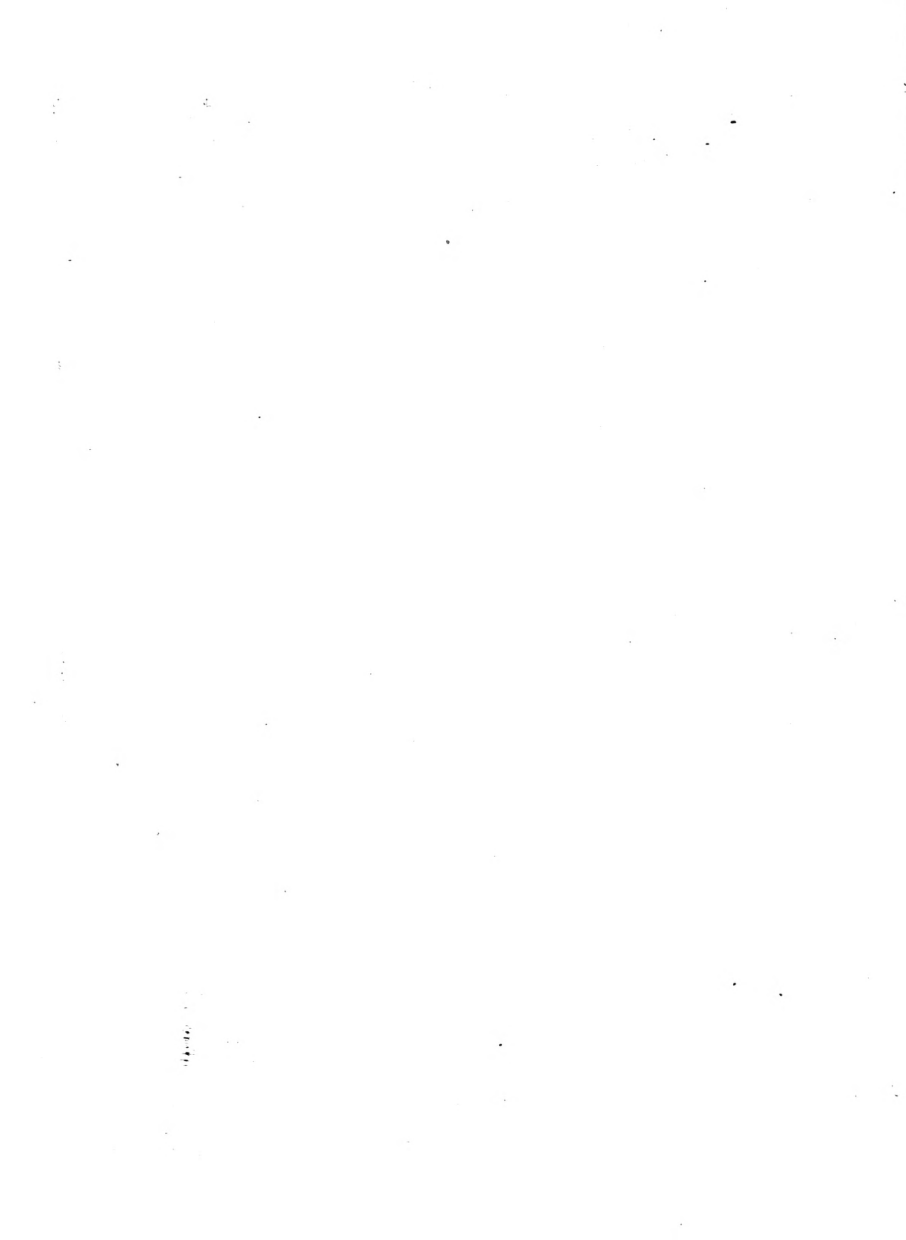
Full L.	Cut L.	Number
9"	4 1/2"	H3-U-1091-9 ...
10"	5 1/4"	H3-U-1091-10 ...

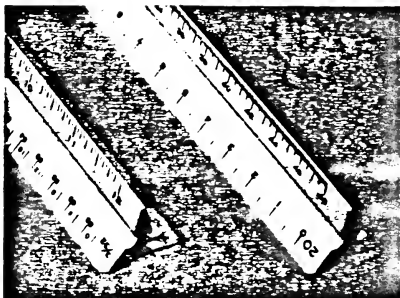
5 OFFICE SHEARS BY CLAUSE CUTLERY—Same as H3-3768 except in attractive confetti color.

	Number
Blueberry	H3-66-BBY ...

6 KLEENCUT ECONOMY STRAIGHT TRIMMERS BY ACME UNITED—Strong, lightweight cast steel construction makes these trimmers maneuverable and easy to use. Developed for use around the office, school and industry. Black enamel handles and nickel plated blades. 12 to a box.

Full L.	Cut L.	Number
6"	2 1/2"	H3-U-1017-6 ...
7"	3 1/4"	H3-U-1017-7 ...
8"	3 3/4"	H3-U-1017-8 ...
9"	3 3/4"	H3-U-1017-9 ...



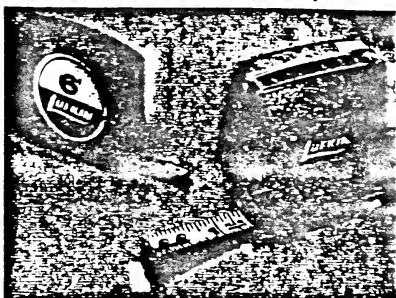


pickett

Triangular scales are designed for students, architects, civil and mechanical engineers. Precision calibrated graduations are fully engraved to guarantee accuracy and afford excellent legibility.

- A ARCHITECTS SCALE**—Made of solid white plastic with clear, sharp graduations of 16, $\frac{3}{32}$, $\frac{1}{16}$, $\frac{3}{64}$, $\frac{1}{8}$, $1\frac{1}{2}$, 3, 1, $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{2}$, 12" **D2-P232A-T**

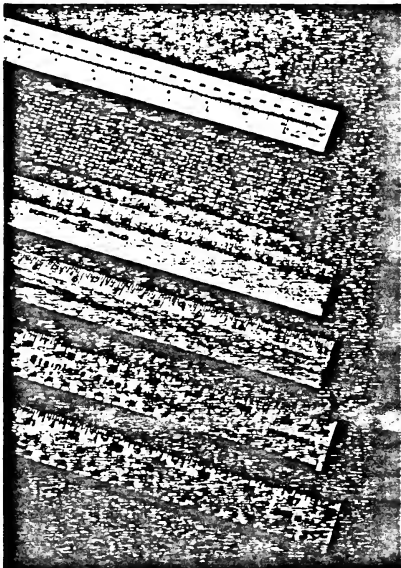
- E ENGINEER'S SCALE**—Same precise, easy to read plastic construction as **A**. Graduations in: 10, 20, 30, 40, 50, 60 parts per inch. 12" **D2-P232E-T**



lufkin

- K "PEE WEE" TAPE RULE**—Pocket size $\frac{1}{4}$ -inch blade marked in inches with red dots, 16-inch centers with black diamonds. Transparent epoxy protects blade from abrasion and wear. No seams or weak spots. 6 feet. **D2-W616**

- L "LOKMATIC" TAPE RULE**—Positive lock holds blade securely. Nameplate is push button for control of blade return. Black numerals on white blade. Foot markings are black block and 16" centers are red blocks. No seams or weak spots. Clear epoxy protects blade from wear and abrasion. All models have removable belt clips. Blades $\frac{1}{8}$ " wide. 10 feet. **D2-W7210**



c-thru

- M METRIC OPAQUE RULER**—A30 centimeter ruler with markings in millimeters on one edge and in inches on the other. Dual calibration in center offering a comparison between metric and English scales. Other side has a series of tables converting: meters to inches; feet to meters etc.; grams to pounds; ounces to grains and other liquid conversion tables. **D2-M-109**

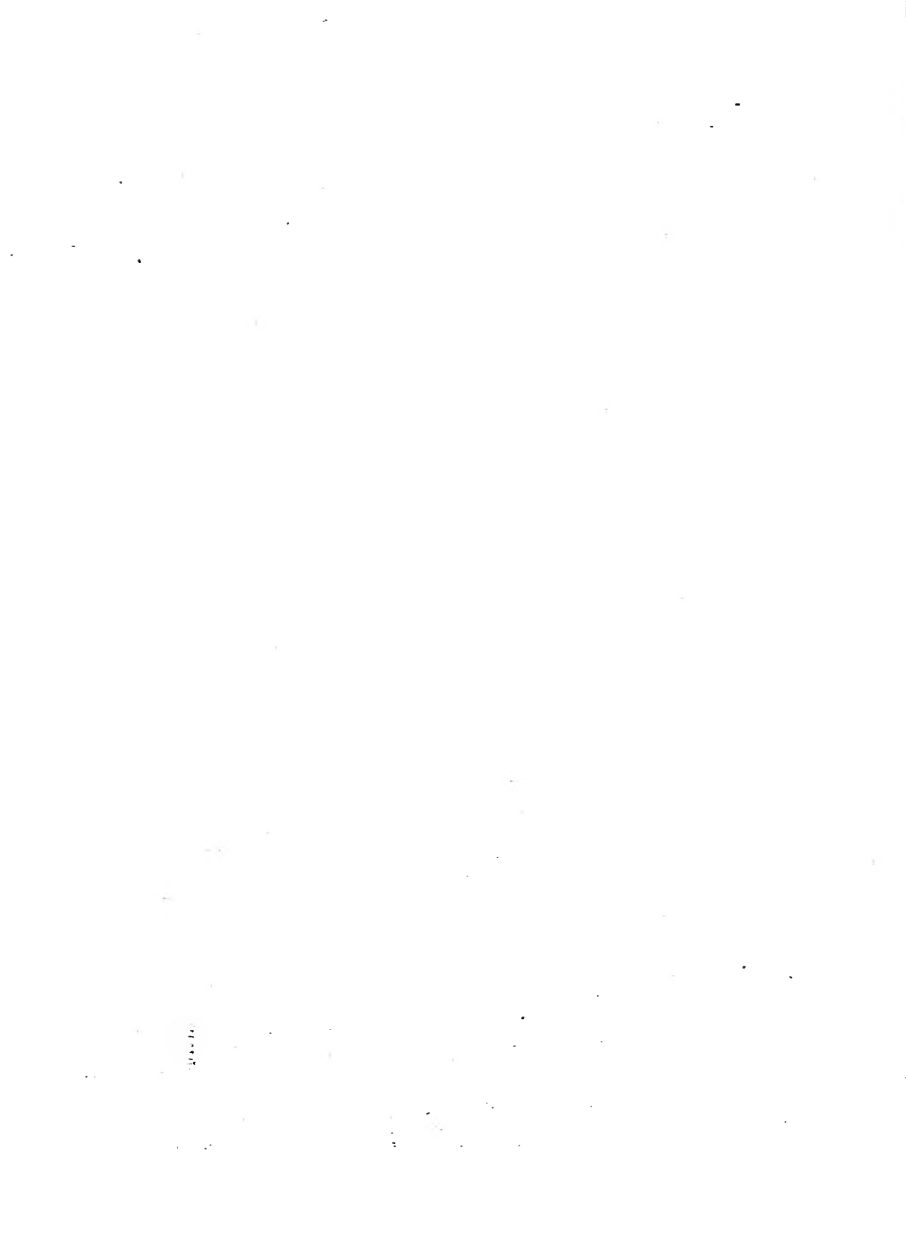
- H HEAVY STANDARD RULERS**—With bevel edges to accommodate ink ruling in assorted sizes. 16 calibrations per inch. 2" x 18" **D2-B-85**

acme united westcott

- F FEATHERWEIGHT RULES**—Made of selected hardwood, with two coats of varnish. Double brass edges. Scaled in 16ths on both sides. $1\frac{1}{2}$ " wide and $\frac{1}{8}$ " thick. 12" **D2-R522-12**
15" **D2-R522-15**
18" **D2-R522-18**

- R RIGID RULERS, SINGLE EDGE**—Made of selected hardwood, with two coats of varnish and gloss finish. Scaled in 16ths of an inch on a bevel. $\frac{1}{8}$ " thick and $1\frac{1}{2}$ " wide. With brass edge. Blank back. 12" **D2-R501-12**
15" **D2-R501-15**
18" **D2-R501-18**

- N NON-SLIP FLEXIBLE STAINLESS STEEL RULER**—Permanent acid-etched graduations won't wear off. Flexibility permits measuring curved surfaces. Finest quality stainless steel. Won't slip on glass or polished surfaces. Raised edges eliminate ink blots and smearing. First inch has $\frac{1}{32}$ " graduations for precision measurements, other graduations are $\frac{1}{16}$ ". Scale is shown in inches and millimeters. 6 inch **D2-R590-6**
12 inch **D2-R590-12**
15 inch **D2-R590-15**
18 inch **D2-R590-18**



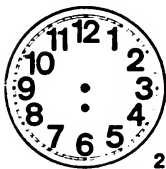
Unless otherwise noted, all faces are available in the following series: 300, 500, 860, 861, 866, 900, 1200 & 1800.

Clock faces in the above series are available in any PPP color. Minimum quantity: 25 per color, per face, at a NET upcharge of \$2.50 each.

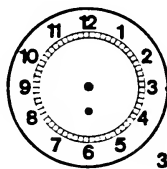
Custom face designs available in contract quantities. Please contact factory for information & prices.

Clock Face Selector

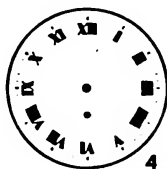
O-1



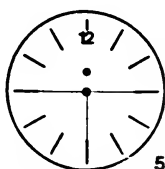
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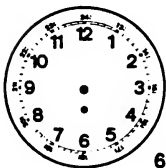
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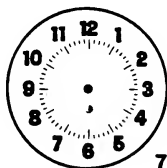
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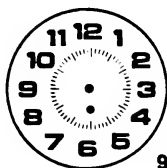
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6



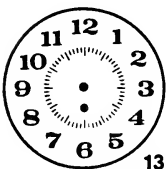
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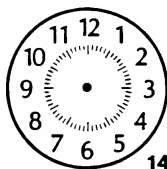
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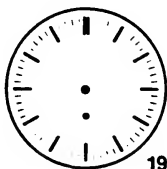
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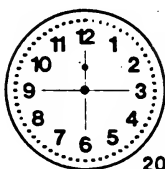
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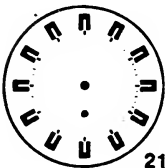
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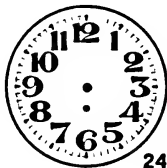
19



20



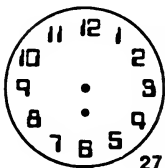
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24



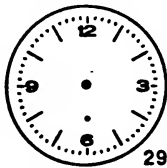
25



27



28



29

Face 10
24 hour clock
500 series only
Special electric movement
or special quartz movement



Also see brochure 2.1 for Digital Clocks

Specification & General Information

CLOCK MOVEMENT & FACE SPECIFICATIONS

Note: Quartz-crystal battery movement will be shipped unless otherwise specified.

Electric:

Self-starting synchronous clock movement, 60 hz, 120 volt AC with back set, 6 ft. cord & plug attached. Semi-flush mount clocks are wired for direct installation into 4" junction box. U.L. listed.

Red sweep-second hand furnished on clocks with plexi face cover only.

Time Systems:

500, 861, 865, 866 & 900 series clocks are designed to incorporate time-system secondary mechanisms for use with master control unit. These may be used when adding to an existing time system as well as in new installations. Please submit your architectural requirements for information and prices.

Quartz-crystal:

Quartz-crystal movement operates on 1.5v alkaline battery.

Clock Faces: (See Clock Face Selector, page 23)

All faces available on all models in the following series: 300, 500, 860, 861, 866, 900, 1200 & 1800 series.

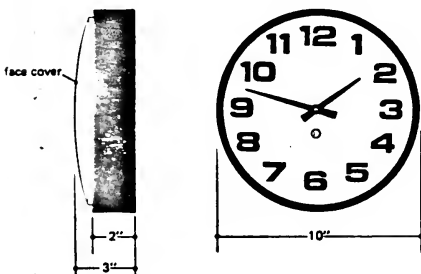
All faces in the series are available in any PPP color. Minimum quantity: 25 per color per face. (See price list)
(Face 10 available in 500 series only)

(Custom face designs available in contract quantities. Please contact factory for information and prices.)

Wood stain:

On those models where Oak is offered, in contract quantities, wood can be stained to match your sample. (See price list)

300 series



Description

Model No.

10" dia. x 2" (less cover)

300

10" dia. x 3" (with plexi cover)

300

Aluminum or steel housing. (Steel is rustproofed)

Available in any PPP color, chrome or duranodic bronze.

(Other finishes available in contract quantities. Contact factory for prices)

Clock face is white with black graphics or black with white graphics.

(Faces available in any PPP color. Minimum quantity 25 per color, per face at NET upcharge of \$2.50 each.)

Clear plexi convex cover optional. (Add suffix "P" to model no.)

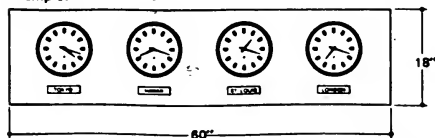
Electric or quartz-crystal battery movement.

Est. shipping wt. 7 lbs.

TO ORDER PLEASE SPECIFY:

Model No.	+	Plexi cover Optional: add suffix "P" to Model no.	+	Face No. (See page 23)	+	Finish PPP color Chrome or Bronze	+	Quartz-crystal or Electric
-----------	---	--	---	---------------------------	---	--	---	-------------------------------

Example:



Multiple Time Zone Clocks available:

300 series clocks with time-zone plaques mounted on walnut, oak or any PPP color background.

Electric movement only.

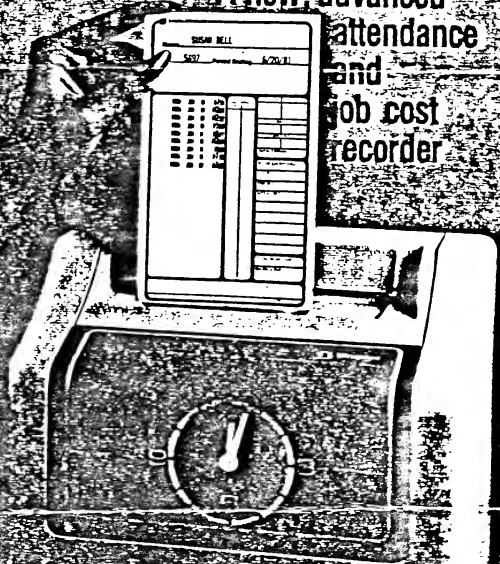
2 to 6 clocks can be mounted to a single panel.

Please submit your requirements to factory for information & prices.

 Simplex

TR-2C

A new, advanced
attendance
and
job cost
recorder



THE SIMPLEX TR-2C...

helping to increase the productivity of your business

Today, time and productivity are more critical to your business than ever before. Simply consider all the time your business loses each day. Only five minutes of lost time per employee per day can amount to a significant loss in profit each year.

Simplex's new TR-2C is specifically designed to reduce such losses and increase productivity in a wide variety of businesses. By accurately recording time, the TR-2C can aid in the efficient completion of job cost performance and documentation tasks — as well as many functions associated with the clerical and accounting procedures common to contemporary work environments. Chief among these tasks and functions are:

Attendance Recording -

TR-2C enhances your ability to monitor and manage labor costs through accurate recording of employee arrivals and departures

Job Cost Recording -

TR-2C helps maintain a tighter control on productivity by recording time spent on specific tasks

Safe Deposit Box Recording -

TR-2C is ideal for preparing historical records of entries made by lessees

Dispatching -

TR-2C documents the response and performance of your personnel, recording the receipt of service requests, complaints and emergencies, and documenting your response and completion time

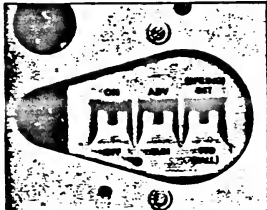
Innovative Consecutive Spacing
Simplex's new TR-2C, utilizing an advanced consecutive-spacing principle, places each time registration directly beneath the preceding one — regardless of the time interval between registrations. Unlike other job and attendance recorders, the TR-2C uniformly advances the time card after each registration by actually perforating the card. When the time card is inserted again, a sensor locates the last perforation and registers the next time in the proper order. This procedure eliminates the accumulation of punched-out card stock which constantly fills the bottom of other recorders and requires maintenance to prevent jamming.

TR-2C...features that spell productivity

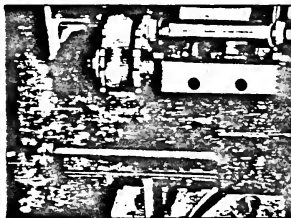
Time Accumulator

Eliminates problems due to power failure.

Through an optional, micro-processor-controlled memory device, accurate time is maintained during power failures, and the recorder can be automatically reset when power is restored. Special switches enable the recorder to be set easily for Daylight Savings Time.

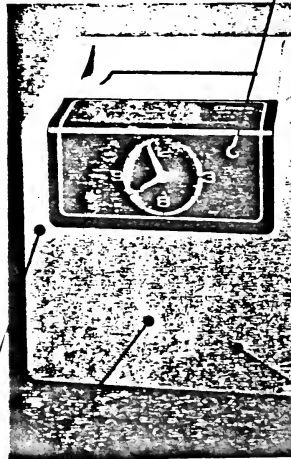


Time Accumulator



Ribbon Cassette

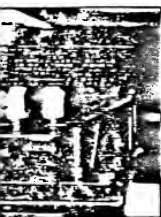
Long life; clear records; easy to change cassette.



Rugged, Attractive Case

Ideal for both office and industrial applications.

Strong, modern Noryl case resists chipping and peeling, and cleans easily. Flexibly designed mount allows the TR-2C to be easily installed on a table, shelf, or wall.



Custom Programming - Cartridge can be easily programmed to meet your scheduling needs.

Two-color ribbon - your supervisors are more effective if they can quickly determine which employees are arriving late or leaving early. The two-color ribbon program accentuates any registrations deviating from your schedule by using red ink.

Time Signal Control - your business is more productive if your employees conform to assigned working periods. The Time Signal Control sounds a bell or horn to signal work periods, breaks and lunches.



Custom programming cartridge

Sample

Name _____

No. _____ Period Ending _____

			DAILY TOTALS		A.T. HOURS		O.T. HOURS	
			R.T.	O.T.				
1981	JUN	10	8756					
1981	JUN	10	81200					
1981	JUN	10	81252					
1981	JUN	10	8500					
1981	JUN	11	8807					
1981	JUN	11	81200					
1981	JUN	11	8100					
1981	JUN	11	8715					
1981	JUN	12	8755					

TOTAL EARNINGS _____

NO. OF EXEMPTIONS _____

TOTAL DEDUCTIONS _____

BALANCE DUE _____

TOTAL HOURS SHOWN IS CORRECT

SIGNATURE _____

TRC-202

More features to fit your needs

Master Time Control Option: TR-2Cs can also be ordered for use with Simplex Master Time Center systems.

Choice of typewheel configurations: the TR-2C is offered in many typewheel configurations, one of which is right for your needs.

Time Cards

A wide variety of time cards for attendance recording, job cost recording, and many special applications can be used with the new TR-2C.

Card shown is 75% of actual size

TIME IS MONEY

The chart at the right shows what "only 5 minutes" in lost time each day costs YOU — based on an 8 hour day, 5 day week, 255 working days per year. Overhead cost is assumed to be equal to the hourly rate.

RATE	EMPLOYEES					
	5	10	25	50	100	500
3.50	743.80	1,487.80	3,718.80	7,438.00	14,876.00	74,380.00
5.00	1,062.60	2,125.00	5,313.00	10,626.00	21,252.00	106,260.00
7.50	1,593.80	3,187.50	7,968.80	15,937.50	31,875.00	159,375.00
10.00	2,125.00	4,250.00	10,625.00	21,250.00	42,500.00	212,500.00
12.00	2,550.00	5,100.00	12,750.00	25,500.00	51,000.00	255,000.00

OPERATIONAL SPECIFICATIONS

Overall Dimensions:

Height 13 3/4"
Width 10 9/16"
Depth 7 1/2"

Shipping Weight: 26 lbs.

Enclosure:

Injection molded Noryl
Thermoplastic resin, with
Lexan dial crystal. Designed
for desk or wall mounting.

Finish:

Sierra beige with black
and red trim.

Listing:

Underwriter's Laboratories
Canadian Standard Association
(pending).

Power Requirements:

Synchronous: 115 volts 60 Hz
0.2 amp continuous; 6 amp inter-
mittent.
Impulse: 115 volts 60 Hz
6 amp intermittent; 24 VDC
.04 amp intermittent.

Environmental:

35° to 120° Fahrenheit, 90%
maximum relative humidity, non-
condensing. Not for use in an
explosive atmosphere.

Warranty:

90 days. Includes all parts
and labor for servicing, material
defects and faulty workmanship.

TR-2C STOCK MACHINES

Synchronous 115 Volts 60 Hz

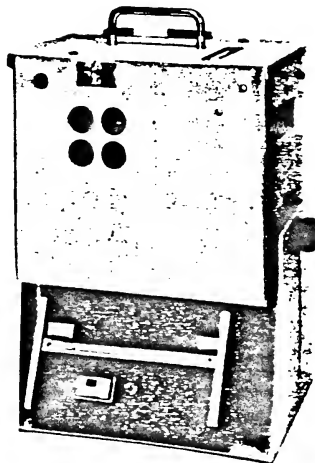
LD. NUMBER	TYPESECTION	CARD WIDTH	PROGRAM FEATURES
1201-9001	Day 1-12 Minutes	3 1/4"	None
1201-9002	Day 1-12 Minutes	4 3/16"	None
1201-9003	Day 0-23 Hundredths	3 1/4"	None
1201-9004	Day 0-23 Hundredths	4 3/16"	None
1201-9007	Yr. Mo. Date 1-12 Minutes	4 3/16"	None
1201-9101	Day 1-12 Minutes	3 1/4"	Two Color & Signal Control
1201-9102	Day 1-12 Minutes	4 3/16"	Two Color & Signal Control
1201-9103	Day 0-23 Hundredths	3 1/4"	Two Color & Signal Control
1201-9104	Day 0-23 Hundredths	4 3/16"	Two Color & Signal Control
1201-9107	Yr. Mo. Date 1-12 Minutes	4 3/16"	Two Color & Signal Control

NOTE: Other model variations available upon request.



Simplex Time Recorder Co., • Simplex Plaza • Gardner, Massachusetts 01441 U.S.A.
Telephone: (617) 632-2500 • Cable Address: SIMRECO

The New Super "All-In-One" I.D. System^o



The super 4 + 4 System has many fine features to offer. It is a self-contained system that features a built in camera that can not double expose. It has a lock off built in, an automatic focusing light for positioning the subject and can take 1 to 4 photos in less than one minute. It uses instant color or black and white film.

The 4 + 4 has an electronic timer/developer for color film and an electric photo die cutter. The system contains a modular strobe unit and a modular electronic circuit board. This system comes complete with a 4" laminator that requires no carrier to seal I.D. cards - wider laminators are also available to laminate both I.D. cards and larger documents.

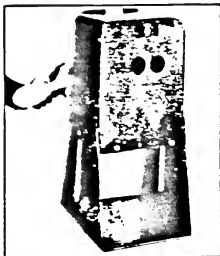
Identatronics can supply hand slot punches, removable strap clips, laminating pouches, printed indestructible I.D. cards, access control systems, etc.

WE SUPPLY ALL ITEMS FOR COMPLETE I.D. SYSTEMS.

Call toll free for information regarding your photo I.D. needs. Identatronics Inc. 800-323-5403. Illinois customers call collect 312-437-2654.

IDENTATRONICS

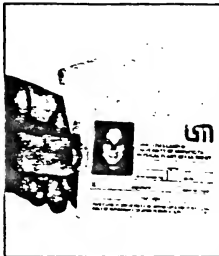
425 LVELY BOULEVARD
ELK GROVE VILLAGE, ILLINOIS 60007
312/437-2654
TOLL FREE - 800-323-5403



The camera will take one photo of two different people or two identical photos of the same person, one of which can be used for the permanent file record. In only 60 seconds you have a finished photo, either in color or black and white!



Cut photo to size (1" x 1 1/4") by merely pulling handle and photo will eject out to size.



Place photo on pre-designed I.D. card or badge in photo area and put in precut mylar plastic chip ready for laminating.



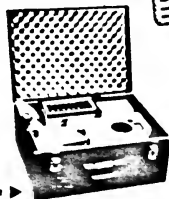
Place I.D. card that has been inserted into plastic chip into face of laminator and in 10 seconds you have a finished, permanently sealed laminated I.D. card.

PRODUCES A BEAUTIFUL, PERMANENTLY LAMINATED I.D. CARD IN LESS THAN 2 MINUTES

Any size card or badge can be produced with this flexible system. Larger photos, for badges easy to identify at long distance, can also be ordered.

Horizontal or vertical cards or badges can be designed to your requirements.

Special clips and pins are available for badges. These same cards coded can be used for door control.

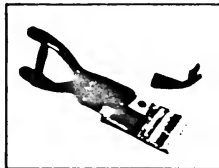


Optional:
Storage/Carrying Case ▶

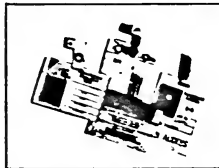
ACCESSORIES



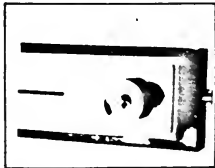
Plastic chips are available in 5 sizes to fit any requirement and can be purchased separately, even for present I.D. systems.



Hand Slot Punches rectangular hole in top of badge for insertion of removable type clips.



Plastic Strap Clips and Pins, almost any kind of holder, are available for wearable badges.



Access Door Controls in variable units are available to let only certain people with coded cards into designated areas or as night control door entry. Ask about our new invisible door entry units.

WE HAVE ALL YOUR PHOTO IDENTIFICATION NEEDS.



IDENTATRONICS



425 LIVELY BLVD. • ELK GROVE VILLAGE, IL 60007
312/437-2654

PRINTED IN U.S.A.

Nonilluminated Directories

0-4

The four photos depict the 440 directory in its various applications. These applications can be combined with each other or used alone and are available on all floor or wall mounted units.

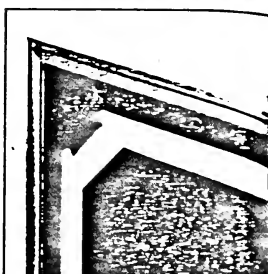
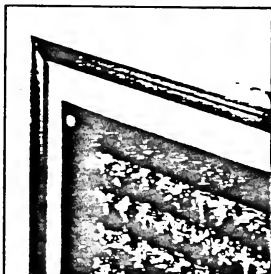
Integral Divider:

Used to provide divided areas within directory.



Changeable Letterboard:

Used to provide changeable messages as required.

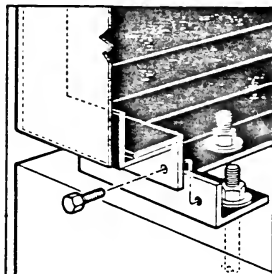


Tackboard:

Used to post messages, special events, announcements, advertising posters and other ephemeral material.

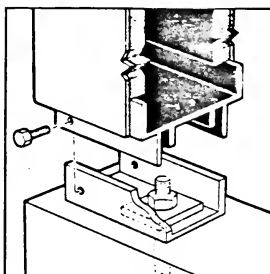
Single Graphic Insert:

Used for floor plans, advertising media, announcements and other printed matter.



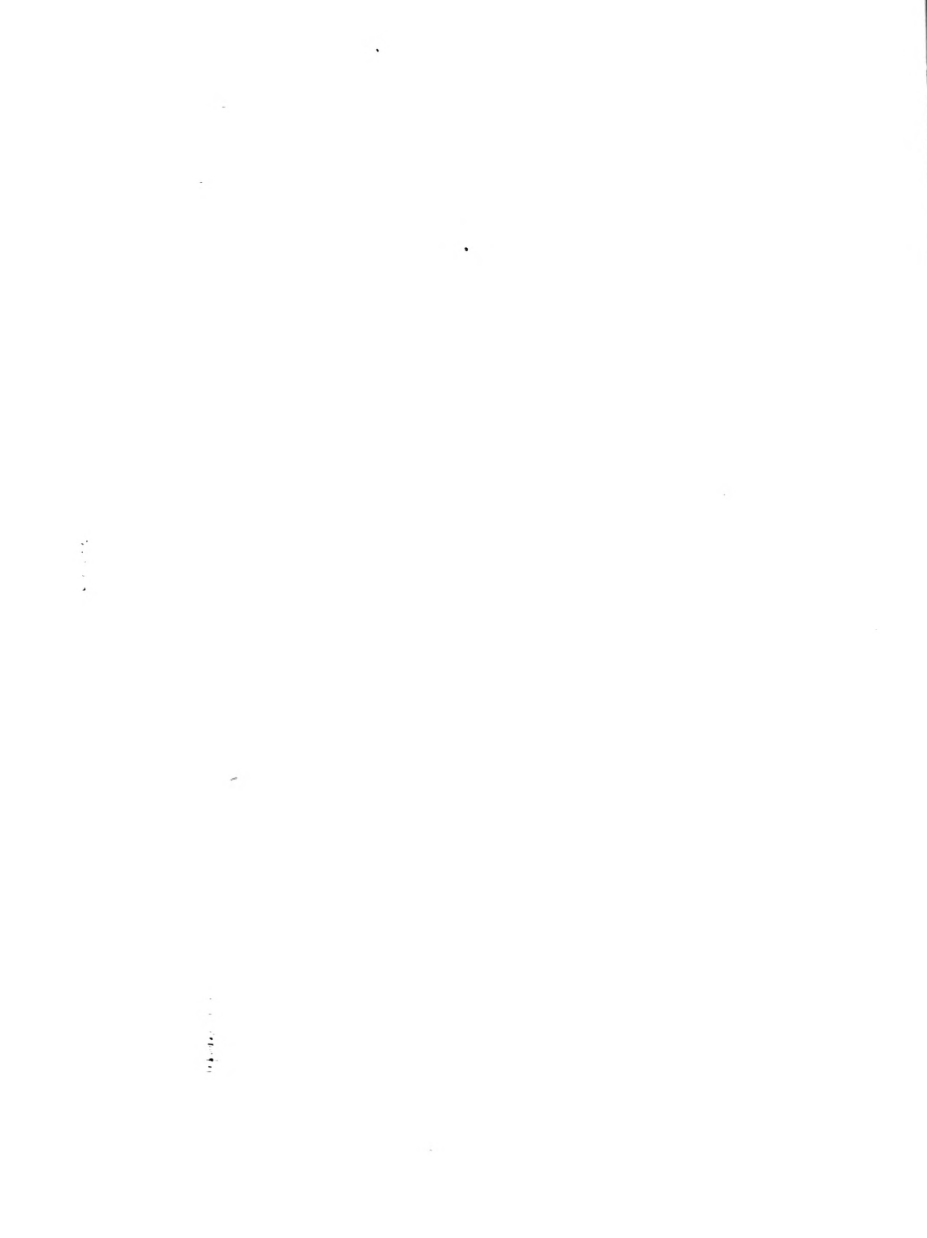
943/444 Mounting

Mating structural frames mechanically fasten and are anchored to floor or pedestal



913/444 Mounting

Mating structural frames mechanically fasten and are anchored to floor or pedestal



Nonilluminated Directories

0-5

The four photos depict the 440 directory in its various applications. These applications can be combined with each other or used alone and are available on all floor or wall mounted units.

Integral Divider:

Used to provide divided areas within directory.



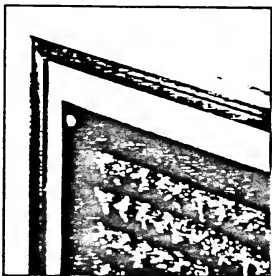
Changeable Letterboard:

Used to provide changeable messages as required.



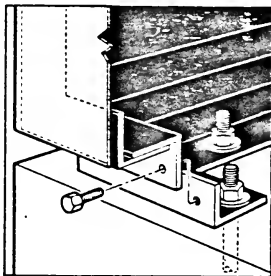
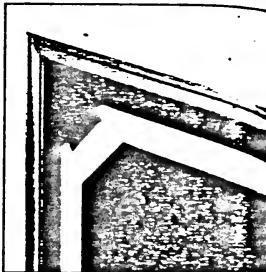
Tackboard:

Used to post messages, special events, announcements, advertising posters and other ephemeral material.



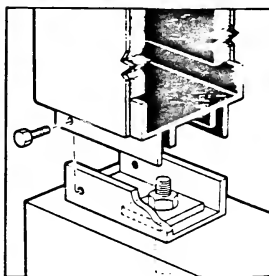
Single Graphic Insert:

Used for floor plans, advertising media, announcements and other printed matter.



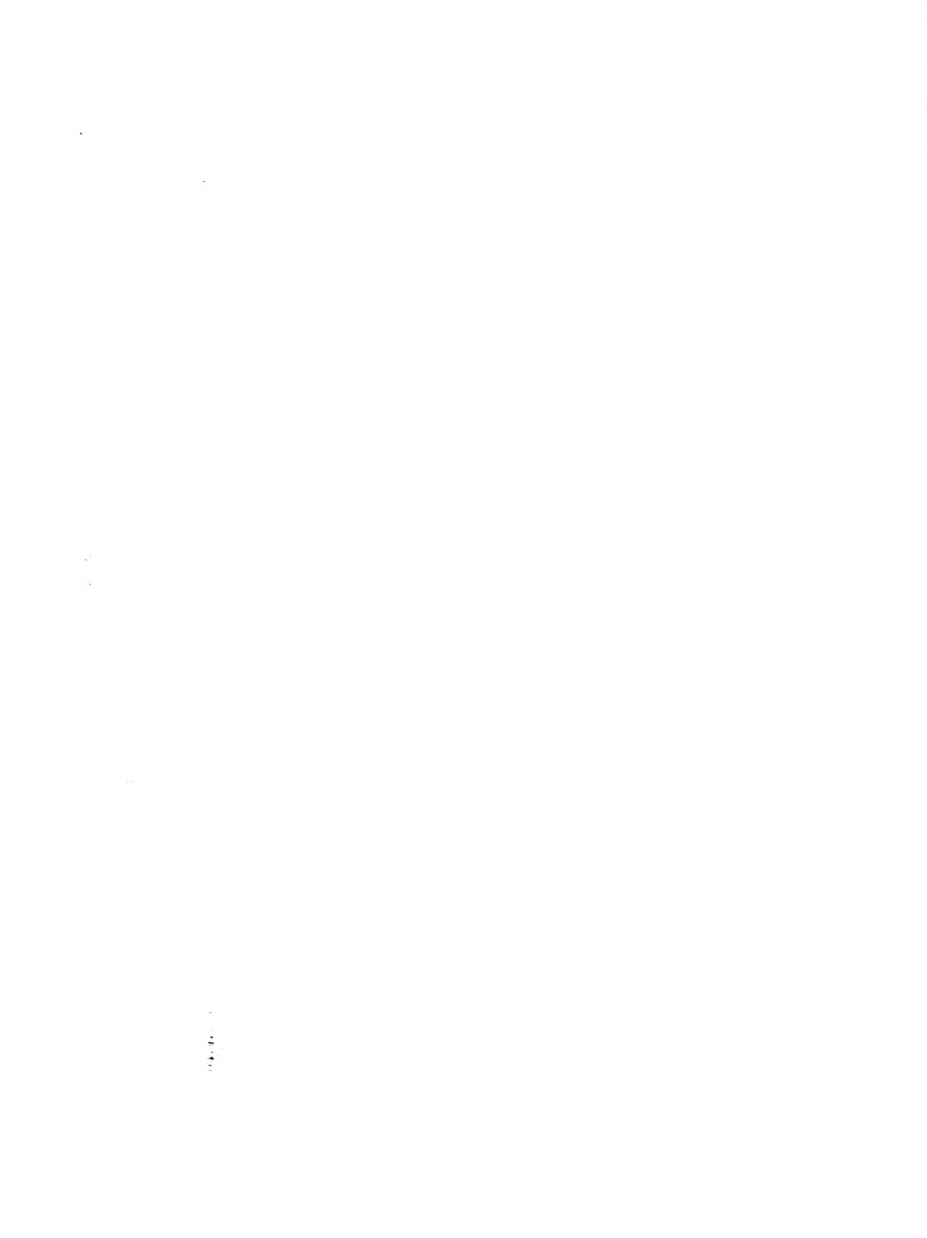
943/444 Mounting

Mating structural frames mechanically fasten and are anchored to floor or pedestal.



913/444 Mounting

Mating structural frames mechanically fasten and are anchored to floor or pedestal.

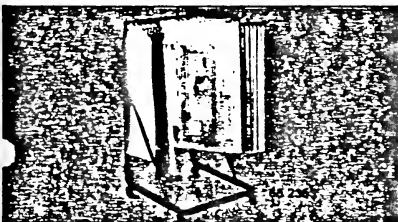


Rolling Stands

Plan Hold Rolling Stands go where you need them. These mobile stands of rigid square-tube steel construction speed plans between desks and departments. Binders or hangers cannot be dislodged accidentally while the stand is in motion. Reinforced height extension for longer prints available for Single Rolling Stands; extension for 65 2317 Later Data Files available for both Single and Double Rolling Stands.

Rolling Stands with Pivot Filing

65 2361 Single Rolling Stand — glides on heavy duty 3" diameter non-marking casters equipped with brakes. Stand adjusts from 28" to 45¼" in depth and from 40" to 56" in height.
65 2478 Extension for Single Rolling Stand — when added to 65 2361, sheet length capacity is increased to 72".



65 2363 Single Rolling Stand with Type "C" Binders — includes 65 2361 Rolling Stand, twelve 65 2319 Pivot Brackets, and twelve 65 2307 Type "C" Binders.

Product Number	No. of Binders	Maximum Sheet Size		Overall Size		
		Width	Length	Height	Width	Depth
65 2363-18	12	18	52"	40-56	25½	26
65 2363-24	12	24	52"	40-56	25½	27¼
65 2363-30	12	30	52"	40-56	25½	33¼
65 2363-36	12	36	52"	40-56	25½	39¼
65 2363-42	12	42	52"	40-56	25½	45¼

*Height and depth of single rolling stands are adjustable; height should be 4" greater than actual print length and depth should be 3¼" greater than sheet width.

Rolling Stands for Sheet Hangers

65 2365 Single Rolling Stand — includes 65 2361 Rolling Stand and two 65 2465 Adjustable Sheet Racks.

65 2367 Single Rolling Stand with Spring Clip Hangers — includes 65 2365 Rolling Stand with two Adjustable Sheet Racks, and forty 65 2311 Spring Clip Hangers.

65 2369 Single Rolling Stand with Aluminum Hangers — includes 65 2365 Rolling Stand with two Adjustable Sheet Racks, 12 dozen 65 2313 Aluminum Hangers and 4 gross 65 2489 Aluminum Foil Adhesive Fasteners.

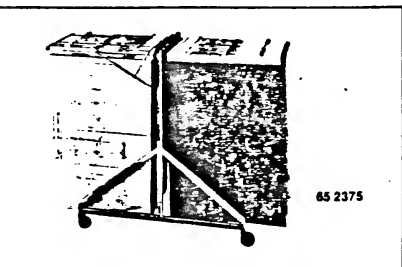
Product Number	Max. Sheet Size		Overall Size		
	Width	Length	Height	Width	Depth
Spring Clip Hangers (40)					
65 2367-18	up to 30"	52"	40-56	25½	up to 33¼
Aluminum Hangers (12 Dozen)					
65 2369-30	30	52"	40-56	25½	33¼
65 2369-36	36	52"	40-56	25½	39¼

65 2377 Double Rolling Stand — includes 65 2373 Rolling Stand and four 65 2465 Adjustable Sheet Racks.

65 2379 Double Rolling Stand with Spring Clip Hangers — includes 65 2377 Rolling Stand with four Adjustable Sheet Racks, and eighty 65 2311 Spring Clip Hangers for sheets up to 30" wide and 42" long.

65 2381 Double Rolling Stand with Aluminum Hangers — includes 65 2377 Rolling Stand with four Adjustable Sheet Racks, 24 dozen 65 2313 Aluminum Hangers and 8 gross 65 2489 Aluminum Foil Adhesive Fasteners.

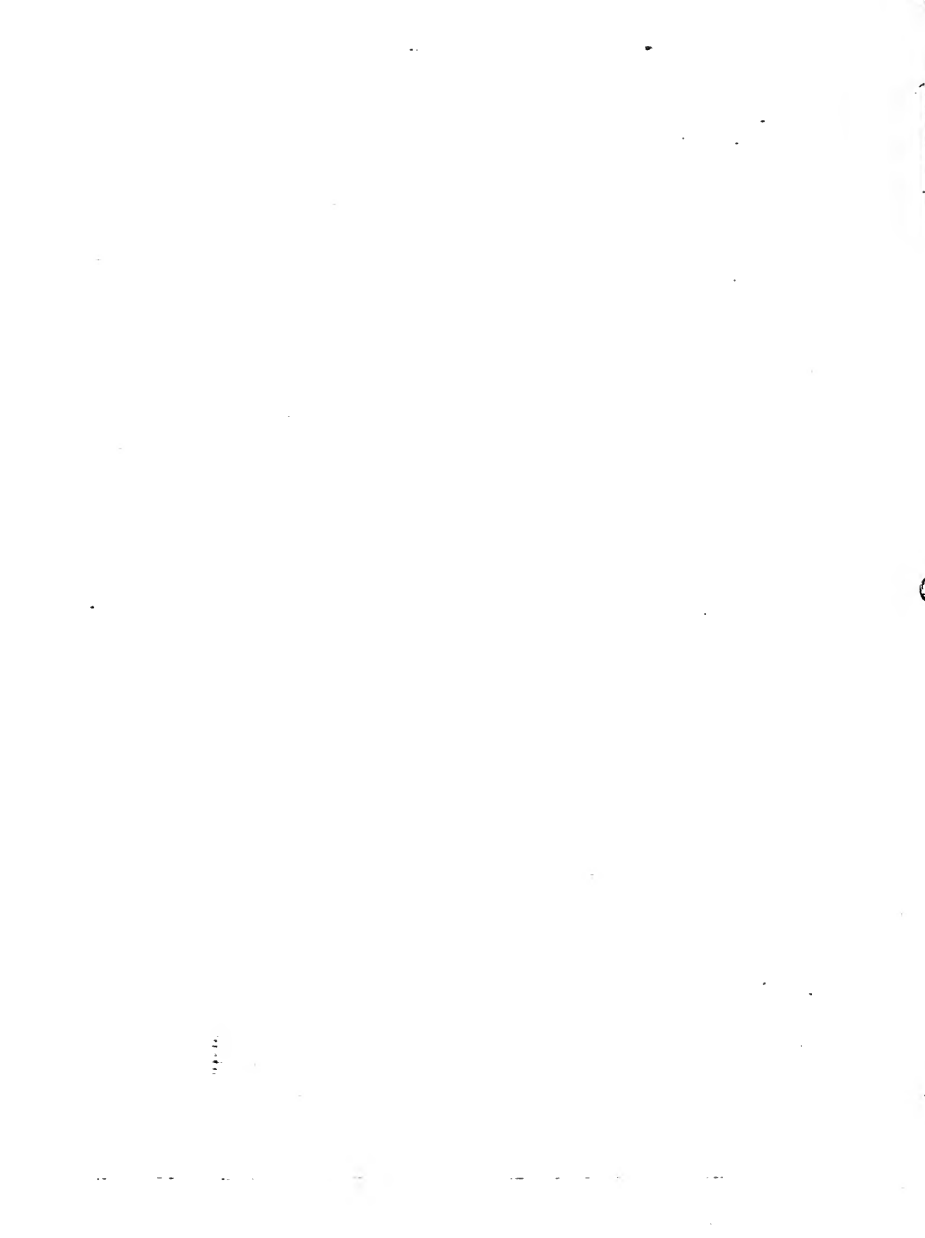
Product Number	Max. Sheet Size		Overall Size		
	Width	Length	Height	Width	Depth
Spring Clip Hangers (80)					
65 2379-18	up to 30"	42"	34-46	24¼	up to 67"
Aluminum Hangers (24 Dozen)					
65 2381-30	30"	42"	34-46	24¼	67½



65 2373 Double Rolling Stand — Same as Single Rolling Stand 65 2361 but has double capacity. Stand adjusts from 34" to 46" in height and from 42" to 66" in depth.

65 2375 Double Rolling Stand with Type "C" Binders — includes 65 2373 Rolling Stand, twenty-four 65 2319 Pivot Brackets, and twenty-four 65 2307 Type "C" Binders.

Product Number	No. of Binders	Maximum Sheet Size		Overall Size		
		Width	Length	Height	Width	Depth
65 2375-18	24	18	42"	34-46	24¼	42
65 2375-24	24	24	42"	34-46	24¼	54
65 2375-30	24	30	42"	34-46	24¼	66



M-12/80 Drafting Tables

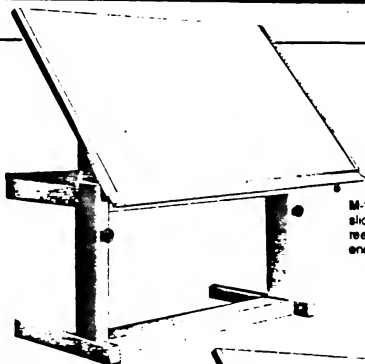
0.8

Modular Drafting

Contemporary design, rigid steel body construction and adjustable cellular core drawing surface.

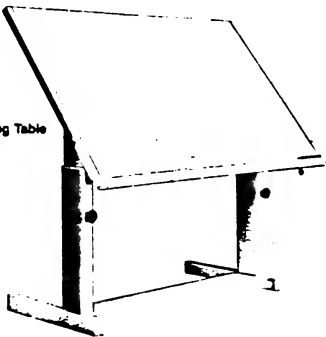
These are just a few of the many features offered by the Hamilton M-12/80 table...and it's modular so you can arrange the components or add accessories to fit your needs. It's easy to assemble, and it's practical to use the Drafting Table with a companion Reference Desk (see page 30) to complete the M-12/80 work station.

The new M-12/80 Drafting Table has *adjustable board counterbalance*, 12" of board height travel, and up to 80° of tilt. A reversible sliding reference surface and reference drawer plus optional two-drawer unit for even more storage space means complete flexibility in drafting station layout.

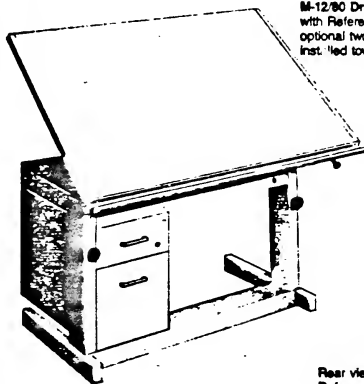


M-12/80 Drafting Table with sliding reference surface and rear reference drawer (Reference Module).

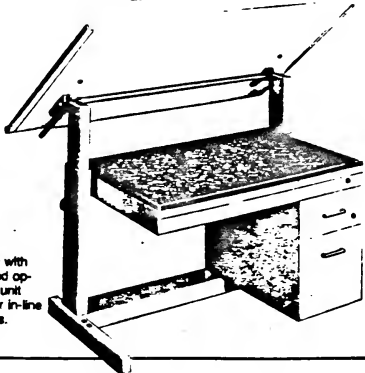
M-12/80 Drafting Table



M-12/80 Drafting Table with Reference Module and optional two-drawer file unit installed toward draftsman.



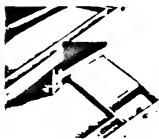
Rear view of M-12/80 with Reference Module and optional two-drawer file unit facing rear. Perfect for in-line drafting arrangements.



Features



Cellular Core hardboard drawing surface. Metal pencil trough and cleats. Pleasing wood tone finish.



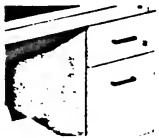
Reference drawer with lock and enclosed tool compartment. Reference drawer can be locked separately while allowing drawer access.



Vertical travel from 30° to 42° with spring counterbalance assist, which allows draftsman to work either sitting or standing. Board height adjustment is easily accomplished with convenient locking hand-wheels.



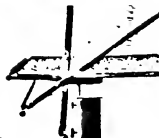
Open pedestal base complements today's modern drafting room. Dual 3-wire electrical outlets are mounted on outtrigger.



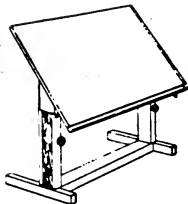
Optional two drawer unit. Attaches to table and is reversible, as required.



High pressure laminate clad reference surface slides out 12" for easy access, and back in when not in use.

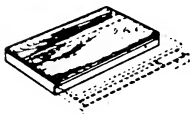


Fully counterbalanced drawing board tilt mechanism. Adjustable fingertip control of any drawing surface tilt required. Full 60 degrees of board tilt, controlled by a single brake handle from the draftsman's side.



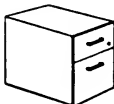
Tables without Reference Modules

64 0423	37 1/4" x 50" Drawing Surface
64 0424	37 1/4" x 60" Drawing Surface
64 0425	37 1/4" x 72" Drawing Surface



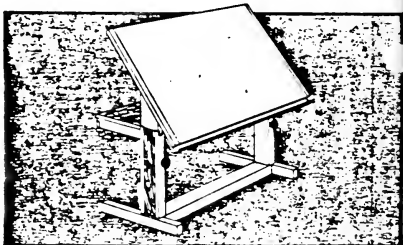
Reference Module

64 0428	29 1/4" x 44" Sliding reference surface and combination reference tool drawer with lock.
---------	--



Two Drawer File Unit

64 0433	Locked tool drawer/file 12 1/4" x 25 1/2" x 5" ID and catalog drawer 12 1/4" x 25 1/2" x 12 1/2" ID.
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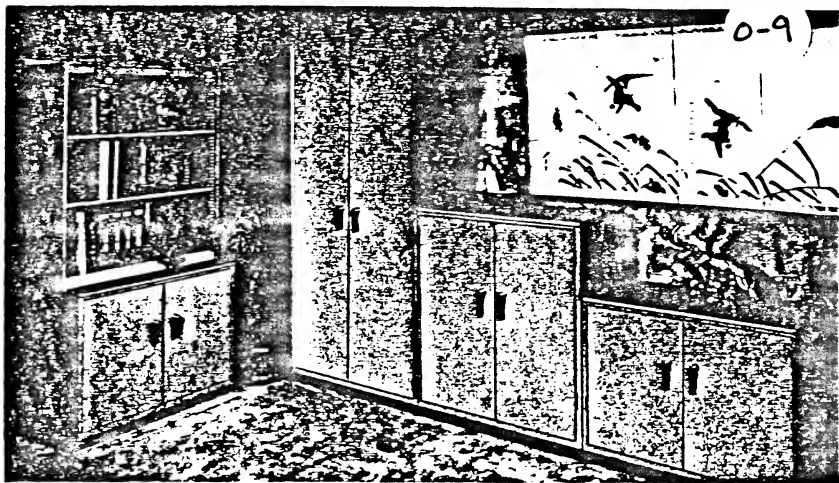
Tables with Reference Modules

64 0420	37 1/4" x 50" Drawing Surface
64 0421	37 1/4" x 60" Drawing Surface
64 0422	37 1/4" x 72" Drawing Surface



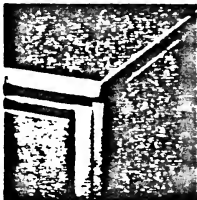
Finish: Putty (M4) with Walnut grained high pressure laminate reference surface. All other standard drafting colors available no extra charge, subject to extended delivery.

DECORATOR STORAGE CABINETS

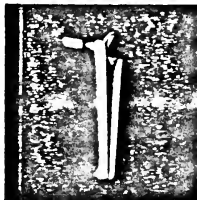


Equipito Decorator Cabinets add a gracious note to all working environments—and at the same time they're highly functional. Units are available in a variety of sizes, styles and colors to satisfy your present storage needs and allow flexibility for the future.

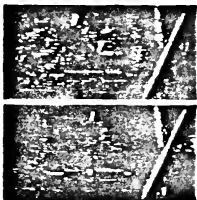
These cabinets combine the practicality of heavy-gauge steel construction with the beauty of contemporary styling. Smooth surfaces have a baked enamel finish—no bolt heads or protrusions to catch or snag clothing. Cabinet doors are fully reinforced and bases smartly recessed. Forward tipping is virtually impossible because each unit is completely balanced. Designed for years of trouble-free service, Equipito Decorator Cabinets provide storage with style.



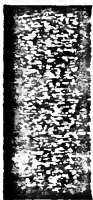
Cabinet Frames
Crafted of sturdy steel, Decorator Cabinet frames feature an advanced interlocking design for maximum strength and superior rigidity.



Door Handles
Attractively designed handles are made of satin, chrome-plated steel. A 3-point locking device on door assures secure storage of cabinet contents.



Positive Shelf Lock
All shelves have a positive lock which slides into the opening and locks in place. Even with rugged use, cabinet shelves cannot be dislodged.



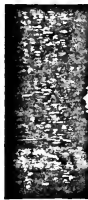
Office Tan



Mist Green



Office Gray



Black



Door Latch
Cabinet doors are equipped with a durable safety latch which allows smooth, quiet operation. All doors open with ease, yet close securely.

Decorator cabinets are stocked in office gray for immediate delivery. The other three colors above may be ordered at no extra charge. See page 3 for additional color information.



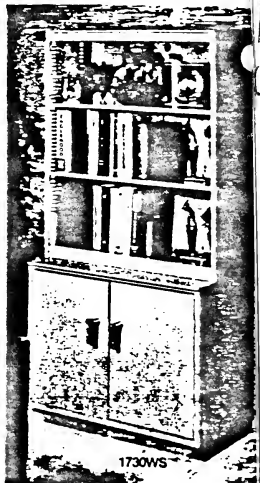
Wardrobe Cabinet

Spacious cabinet has a sturdy, metal rod and 4 hooks for hanging coats, plus a top shelf for hats and purses. Locks securely.



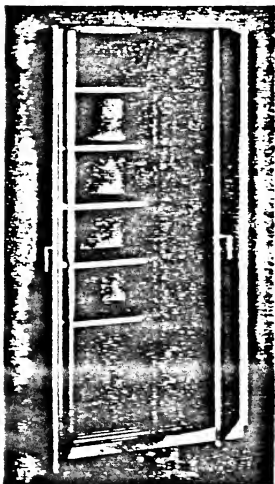
Storage Cabinet

Rugged cabinet in 2 depths features locking handles and 4 adjustable shelves (2" centers). Extra shelves can be added.



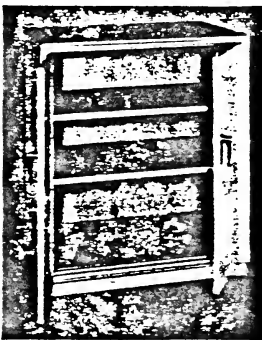
Book Shelf Cabinet

Combination unit with 2 adjustable shelves (4" centers) and 2-door cabinet with internal shelf and locking handles.



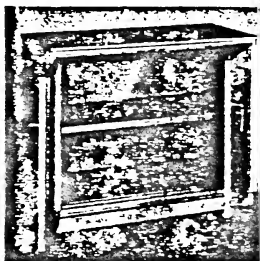
Combination Cabinet

Versatile unit with 5 shelves plus wardrobe area with rod and 4 hooks. Divider panel permits locating wardrobe on either side. Extra shelves can be added.



Counter High Cabinet

Double-door cabinet has locking handles and 2 interior storage shelves. Use back-to-back; side-by-side; add extra shelves. Two widths.



Desk High Cabinet

Use back-to-back or side-by-side to form a credenza for extra storage and work surface. Has 1 shelf, locking handles. Add extra shelves to expand storage space.

Cabinet Description	Width	Depth	Size Height	Extra Shelves Catalog No.	Cabinet No.
Wardrobe	36"	18"	78"	—	1712
Wardrobe	36"	24"	78"	—	1717
Storage	36"	18"	78"	18027	1710
Storage	36"	24"	78"	18029	1715
Book Shelf	36"	18"	71"	8192 (Upper) 18027 (Lower)	1730W
Combination	36"	18"	78"	16032	1714
Combination	36"	24"	78"	16033	1719
Counter High	36"	18"	42"	18027	1700
Counter High	36"	24"	42"	18029	1708
Desk High	36"	18"	29"	18027	1730

Stock color office gray. See page 3 for other colors.

WIND-MASTER®

U.S. OUTDOOR FLAGS (with grommets)

COTTON — Made from long fibre cotton for enduring wear. Meets all Federal Government specifications. Fast dyes used in production to reduce effects of weathering. Trailing end hemmed and reinforced with three rows of stitching. Strong canvas headings with heavy duty grommets, or with rope heading in larger sizes.

NYLON — Manufactured of fine quality nylon. Slight puckering of material where stitched gives the flag light-catching facets of beauty. A superb flag which has the tendency to shed water, flutters easily with the slightest wind. Even with nylon thread for extra strength. Fire resistant as well as mildew resistant. Easily washed for effective maintenance and long life.

Code 201	2' x 2' Cotton	Code 211	8' x 12' Cotton
Code 202	2' x 3' Nylon	Code 212	8' x 12' Nylon
Code 203	3' x 5' Cotton	Code 213	10' x 15' Cotton
Code 204	3' x 5' Nylon	Code 214	10' x 15' Nylon
Code 205	4' x 6' Cotton	Code 215	12' x 18' Cotton
Code 206	4' x 6' Nylon	Code 216	12' x 18' Nylon
Code 207	5' x 8' Cotton	Code 217	15' x 25' Cotton
Code 208	5' x 8' Nylon	Code 218	15' x 25' Nylon
Code 209	6' x 10' Cotton	Code 219	20' x 30' Cotton
Code 210	6' x 10' Nylon	Code 220	20' x 30' Nylon

NOTE: Flags up to 5' x 8' have embroidered stars; 6' x 10' and larger have sewed stars. Flags 6' x 10' and larger have reinforced corners.

Suggested Maintenance: Admiral recommends that flag be watched for first signs of soil or dirt embedment. Cotton is best dry-cleaned. Nylon can be washed with luke-warm water and mild detergent, then hung full-length for drying. Flag will dry well, with good wind, on flag pole. At first signs of tattering, on trailing end, take to tailor or seamstress and have them cut off slight margin of tattering and re-sew as previous when manufactured. This will lengthen life of flag.



OPTIONAL FLAG POLE FINISHES AVAILABLE

In addition to the standard brushed finish on aluminum poles, and white finish on fiberglass, Admiral offers optional finishes to match or enhance your job conditions. These finishes, along with adding beauty to their surroundings, give added protection against pollutants that might otherwise affect the finish of the pole.

ALUMINUM POLES

Duranodic Anodized — Light Bronze #311, Medium #312, Dark #313 and Black #335.
Kalcolor — Gold, Light Amber, Amber and Statuary Bronze.
Natural (Clear) Anodized

FIBERGLASS POLES

Most standard colors are available, including bronze.

TYPICAL ADMIRAL INSTALLATIONS

State Capital Building Columbus, Ohio	Muirfield Village Golf Club Dublin, Ohio
Ohio State University Golf Course Columbus, Ohio	Citizens & Southern Bank Atlanta, Georgia
BancOhio/Ohio National Banks Columbus, Ohio	McDonalds Restaurants Midwest and East Coast
Jake Sweeney Chevrolet Cincinnati, Ohio	Holiday Inn Columbus, Ohio & Kokomo, Ind.
Cuyahoga Valley National Bank Peninsula, Ohio	Tuff-Kote Warren, Michigan
Army Corps. of Engineers Milton Lake, Ohio	Detroit Bank and Trust Co. Detroit, Michigan
Harter Banks Canton, Ohio	Saunders Leasing Detroit, Michigan
Senior Citizens Federal Housing Akron & Barberton, Ohio	Eaton Corporation Ohio, Michigan and Tennessee
Columbus Public Schools Columbus, Ohio	Freelander's Department Store Wooster, Ohio
Capital Square Parking Garage Columbus, Ohio	Ohio Department of Transportation Columbus, Ohio



WIND-MASTER®

CUSTOM-MADE SPECIAL FLAGS

Admiral takes great pride in producing special flags of a desired or particular design.

Quality of both material and workmanship is assured, and every effort is made to produce, to the client's complete approval, a flag or banner which proves to be a creative work of art.

Three background shapes are available; rectangular, triangular and swallow-tail burgee. All Admiral special flags are completely sewed and available in many basic colors.

When designing your special flag, the following suggestions should be kept in mind: Keep the design simple and effective, and use well-balanced color combinations to enhance the design; Use a minimum of lettering and rely on the design to attract attention; Note the flexibility of single thickness over the excessive weight of double thickness; Consider the longer wear of a rectangular flag over the more expensive pennant or burgee.

In order that our staff may make an accurate price quotation, the following information should be supplied.

- | | |
|--------------------|--|
| 1) Quantity | 5) Lettering involved |
| 2) Material | 6) Sketch or design |
| 3) Size | 7) Single or double thickness |
| 4) Colors involved | 8) Indoor or outdoor, plain or fringed |



HOME FLAG SETS

When you choose Cotton or Nylon, heavy-duty or bunting, Admiral Home Flag Sets are unsurpassed in their price range for workmanship and quality of material.

Each set comes complete with all of the accessories needed for a complete installation. With three qualities of U.S. flags to choose from, we feel that we can offer outstanding values in every respect.

Code 224 - 3' x 5' Cotton bunting - sewed stripes and printed stars, with plastic gold eagle, two piece aluminum pole, halyard and bracket.

Code 225 - 3' x 5' Heavy-Duty Cotton flag - sewed stripes and embroidered stars with gold wooden ball, one piece aluminum pole and cast aluminum star bracket.

Code 226 - 3' x 5' Nylon flag - sewed stripes and embroidered stars with gold wooden ball, one piece aluminum pole and cast aluminum star bracket.



NYLON & COTTON STATE FLAGS

FLAGS OF THE 50 STATES

NOTE: All State flags are Code #221. When ordering, indicate size and material desired. Most State flags are dyed, except where indicated. Prices on 5' x 8' and larger flags available upon request. Flags priced by price group.

STATE	GROUP	STATE	GROUP	STATE	GROUP	STATE	GROUP
s ALABAMA	B	ILLINOIS	D	MONTANA	E	RHODE ISLAND	B
s ALASKA	A	s INDIANA	B	NEBRASKA	C	S. CAROLINA	C
ARIZONA	C	IOWA	A	NEVADA	D	S. DAKOTA	B
ARKANSAS	B	KANSAS	F	NEW HAMPSHIRE	F	s TENNESSEE	B
CALIFORNIA	C	KENTUCKY	F	NEW JERSEY	G	s TEXAS	A
s COLORADO	C	LOUISIANA	C	NEW MEXICO	B	UTAH	E
CONNECTICUT	E	MAINE	F	NEW YORK	G	VERMONT	F
DELAWARE	G	MARYLAND	C	N. CAROLINA	C	VIRGINIA	F
FLORIDA	D	MASSACHUSETTS	A	N. DAKOTA	D	WASHINGTON	C
GEORGIA	B	MICHIGAN	E	OHIO	C	W. VIRGINIA	F
HAWAII	B	MINNESOTA	E	OKLAHOMA	E	WISCONSIN	F
IDAHO	G	MISSISSIPPI	B	OREGON	H	WYOMING	C
		MISSOURI	B	PENNSYLVANIA	E		

s Sewed Throughout

State flags listed above are available in cotton and nylon, and have been priced with canvas heading and grommets for outdoor use. If indoor flags are required, pole hem and fringe can be provided. See price list.



ATTENTION FLAGS

Admiral's ATTENTION FLAGS are available in Cotton or Nylon material, plain, 3 stripes or 5 stripes. Flags come with canvas heading and grommets and are made to order in your choice of color combinations. Colors available: Red, White, Flag Blue, Black, Brown, Orange, Green, Yellow, Light Blue and Purple. Stripes run horizontally. Diagonal designs available at a slightly higher cost.

Code 222 3' x 5'

Code 223 4' x 6'

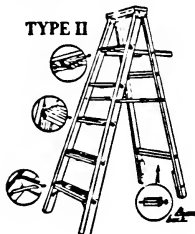


TYPE I

No. 470 HEAVY DUTY INDUSTRIAL STEPLADDER

- Front Rail: 1" x 3 1/2" 4-12 Ft.
1" x 3 1/2" 14-16 Ft.
- Back legs 1" x 2 1/2" 4-12 Ft.
1" x 2 1/2" 14-16 Ft.
- Steps are double nailed to dadoed rails, truss blocked, angle braced at rails, with 1/2" rods.
- Hardwood rungs 1-1/8" diameter in back section with vertical center bracing, and angle braced every 3 feet.
- Streamlined top secured in steel top irons reinforced with steel braces.
- Heavy steel side spreaders.
- SAFETY SHOES AND PAIL SHELF AVAILABLE ON SPECIAL ORDER.
- Made in lengths 4 to 16 feet.
- Weight Approx. 4 1/2 lbs. per foot.

TYPE II



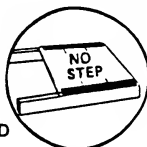
No. 522 "STRONGHOLD" DESIGNED FOR COMMERCIAL USE

- Rails 1-1/8" x 2-5/8" for extra loads.
- Grooved steps mortised in rails.
- Securely nailed and trussed with rods.
- Bucket shelf on all sizes.
- Stream-line metal top caps.
- Heavy steel spreaders - shielded for safety.
- Beam back bracing - secured in steel sockets.
- Lengths 4, 5, 6, 7, 8, 10 and 12 ft.
- Weight approx. 3 1/2 lbs. per ft.

COLUMBIA LADDERS! METAL-CLAD TOPS

RIGID
Pail Shelf

METAL
REINFORCED



GROOVED TOPS

PREVENT TOOLS ROLLING OFF



TYPE I

No. 542 DOUBLE SIDED HEAVY DUTY INDUSTRIAL STEP LADDER DESIGNED FOR AIRCRAFT PLANTS AND GLAZING WORK

- Front rails 1-1/8" x 2-3/4"
- Back legs 1-1/8" x 2-1/4"
- Tee-Step construction. 3 1/2" flat steps both sides of ladder.
- A Hard Bessemer steel U bolt with double the strength of ordinary rods.
- B Rivet through T-Step anchors U bolt.
- C Rib forms T-Step, producing great strength and rigidity.
- D Galvanized steel wear plate sockets support T-Steps.
- E Reinforced twin hole washers for ends of U bolts.
- Top is protected by steel caps and additionally braced with plates on inside of ladder.
- Self locking shielded hinges hold ladder in rigid position.
- Made in lengths 4 to 12 ft.
- Weight approx. 5 1/2 lbs. per ft.

Photos and artwork shown are illustrative only. Product's occupational use must conform with safe practices and federal, state and city codes.



TYPE I

No. 450 "ARROW" INDUSTRIAL IDEAL FOR MAINTENANCE WORK IN SCHOOLS AND FACTORIES

- Shipped without shelf unless specified.
- Wide steps secured in steel sockets — trussed with 1/2" rods.
- Rails 25/32" x 3 1/2" 4-12 ft.
25/32" x 3 1/2" 14 & 16 ft.
- Back legs 25/32 x 2 1/2" 4-12 ft.
25/32 x 2 1/2" 14 & 16 ft.
- Back legs braced with hardwood rungs.
- Metal protected top non-splitting.
- Shielded side spreaders.
- Lengths 3, 4, 5, 6, 7, 8, 10 and 12 ft.
- Weight 4 lbs. per ft.
- Lengths 14 and 16 ft. weight 5 lbs. per ft.
- Lengths 18 and 20 ft. - Special Order.



TYPE I

No. 540 EXTRA HEAVY DUTY INDUSTRIAL STEP LADDER MILLWRIGHT SPECIAL

- Front rails 1-1/8" x 2-3/4"
- Back legs 1-1/8" x 2-1/4"
- Same construction as No. 542 except back legs braced with 1-1/8" hickory rungs.
- Shelves on special order only.
- Lengths 4 to 12 ft.
- Weight approx. 5 lbs. per ft.

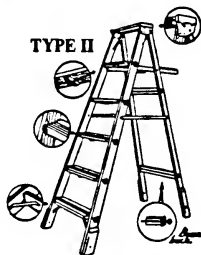


TYPE II

No. 400 COLUMBIA "MASTER MECHANICS"

DESIGNED FOR COMMERCIAL USE

- Steps set in steel sockets and trussed with steel rods.
- Beam-back bracing secured in steel sockets.
- Bucket shelf on all sizes.
- Metal shielded top for extra strength.
- Strong side spreaders with shielded hinges.
- Lengths 4 to 10 ft. Wt. 3 lbs. per ft.

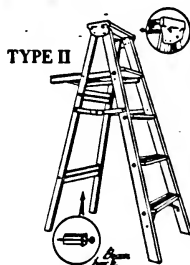


TYPE II

No. 500 COLUMBIA "MECHANICS SPECIAL"

DESIGNED FOR COMMERCIAL USE

- Grooved steps set in dedoed rails.
- Each truss trussed with block and rod.
- Streamlined top — and caps protect top from splitting.
- Pail shelf on all lengths.
- Extra bracing on bottom of ladder rails and legs.
- Beam back bracing.
- Strong steel side spreaders.
- Lengths 4 to 10 ft.
- Weight approx. 3 lbs. per ft.



TYPE II

No. 520 "STANDARD" BUILT FOR GENERAL USE ABOUT THE HOME

- Streamlined flush fitting top — and caps prevent splitting.
- Steel side spreaders.
- Grooved steps set in dedoed rails.
- Steps securely nailed in mortised rails and trussed with rods.
- STEEL BEAM SOCKETS
Leaves FULL STRENGTH in back legs.
- Bucket shelves on all sizes.
- Riveted construction.
- Lengths 3 to 8 feet.
- Weight approx. 3 lbs. per ft.



No. 24 STEP STOOL

Not a Ladder

- Grooved steps rod braced.
- Side spreaders.
- Solid-rivet construction.
- Height 25 inches.
- Packed 4 in a bundle
- Weight 70 lbs. per dozen



TYPE III

No. 43 "STAR" SHELF-LOCK FOR HOUSEHOLD USE ONLY

- Grooved steps secured by nails in mortised rails and bolted with rods.
- Top secured with streamlined end caps.
- Shelf-lock construction. Locks ladder in open position.
- Rodded beam back-leg bracing.
- Riveted construction.
- Made in 4, 5 and 6 ft. lengths.
- Six foot length equipped with side spreaders.
- Wt. 4 ft. with shelf-lock 10 lbs. ea.
- Wt. 5 ft. with shelf-lock 13 lbs. ea.
- Wt. 6 ft. with side spreaders 15 lbs. ea.



No. 601 ELECTRICIAN'S TRIPOD

- Streamlined flush fitting top.
- Steps set in steel sockets.
- Rod trussed steps.
- Wide base for safety.
- Single back for corner work.
- Made in 4, 5, 6, 7, 8, 10, 12 ft. lengths.
- Weight approx. 3 lbs. per ft.

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TYPE I

Total Length Sections	Maximum Extended Length	Highest Standing Level
16 ft.	13 ft.	9 ft. 9 in.
18 ft.	15 ft.	11 ft. 6 in.
20 ft.	17 ft.	13 ft. 6 in.
24 ft.	21 ft.	17 ft. 6 in.
28 ft.	25 ft.	21 ft. 3 in.
30 ft.	27 ft.	22 ft. 3 in.
32 ft.	29 ft.	25 ft. 3 in.
36 ft.	32 ft.	28 ft.
40 ft.	36 ft.	31 ft.



TYPE I

Length Single Ladder	Highest Standing Level
6 ft.	2 ft. 9 in.
8 ft.	4 ft. 9 in.
9 ft.	5 ft. 9 in.
10 ft.	6 ft. 9 in.
12 ft.	8 ft. 9 in.
14 ft.	10 ft. 6 in.
15 ft.	11 ft. 6 in.
16 ft.	12 ft. 6 in.
18 ft.	14 ft. 6 in.
20 ft.	16 ft. 6 in.



TYPE I

No. 740 "COLUMBIA" ROPE HOIST

- Selected ladder grade rails. Hickory rungs.
- Automatic gravity-type locks.
- Equipped with good grade rope.
- Guide Irons made of strong pressed steel.
- Lengths 16 to 40 ft.
- Allow 3 ft. for lap up to 32 ft. — 4 ft. lap for 36 ft. and 5 ft. for 40 ft.
- Weight approx. 2 lbs. per ft.

No. 720 "COLUMBIA" PUSH UP

- Rails of ladder grade stock. Hickory rungs.
- Flared bottom section.
- Automatic gravity locks.
- Heavy pressed steel guides.
- Lengths 16 to 40 ft.
- Allow 3 ft. for lap up to 32 ft. — 4 ft. lap for 36 ft. and 5 ft. for 40 ft.
- Weight approx. 2 lbs. per ft.

No. 700 "COLUMBIA" STRAIGHT OR SINGLE

- Ladder grade rails. Hickory rungs.
- Straight or flared features optional.
- Will be shipped straight unless otherwise specified.
- Lengths 6 to 20 ft.
- Weight 2 lbs. per ft.

No. 745 COLUMBIA (TYPE I) "WIRE-TRUSS" ROPE HOIST EXTENSION LADDER

- Same specifications as for No. 740.
- Heavy gauge wire drawn in grooved rails as shown in Fig. 1 and 2.
- See No. 740 for sizes and weights.
- METAL CONDUCTS ELECTRICITY. Keep metal ladder away from live electrical circuits.

No. 725 COLUMBIA (TYPE I) "WIRE-TRUSS" PUSH UP

- Specifications same as for No. 720 but rails are grooved and wire trussed.
- Figures 1 and 2 show method of reinforcing.
- See No. 720 for sizes and weights.
- METAL CONDUCTS ELECTRICITY. Keep metal ladder away from live electrical circuits.

No. 705 COLUMBIA (TYPE I) "WIRE-TRUSS" STRAIGHT

- All details same as No. 700.
- Wire trussed same as shown in Figures 1 and 2.
- See No. 700 for sizes and weights.
- METAL CONDUCTS ELECTRICITY. Keep metal ladder away from live electrical circuits.

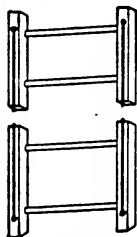


Fig. 1

*Section showing
steel wire trussed
for added strength.*

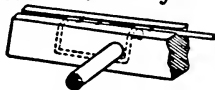


Fig. 2

No. 350 "HOME UTILITY" FOR HOUSEHOLD USE ONLY

- Easily adjusted to desired height.
- Each section can be used as a single ladder.
- Made of selected straight grained stock.
- Hardwood rungs.
- Pressed steel locks.
- Made in 16, 18 and 20 foot lengths.
- Weight approx. 1 1/2 lbs. per ft.

Total Length Sections	Maximum Extended Length	Highest Standing Level
16 ft.	13 ft.	9 ft. 9 in.
18 ft.	15 ft.	11 ft. 6 in.
20 ft.	17 ft.	13 ft. 6 in.



TYPE III

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WOOD

COLUMBIA
LADDERS

EXTENSION LADDERS

CABLE HOOKS
STAND-OFF

TYPE I

Length
Single
Ladder

6 ft.
8 ft.
9 ft.
10 ft.
12 ft.
14 ft.
15 ft.
16 ft.
18 ft.
20 ft.

Highest
Standing
Level

2 ft. 9 in.
4 ft. 9 in.
5 ft. 9 in.
8 ft. 9 in.
8 ft. 9 in.
10 ft. 6 in.
11 ft. 6 in.
12 ft. 6 in.
14 ft. 6 in.
16 ft. 6 in.

No. 710 COLUMBIA
ROD-BRACED STRAIGHT
OR SINGLE LADDER

- Each hardwood rung braced with steel rod.
- Rails are ladder grade stock.
- Hickory rungs.
- Straight or flared features optional.
- Shipped straight unless otherwise specified.
- Lengths 8 to 22 ft.
- Weight 2 lbs. per ft.

No. 715 COLUMBIA (Type I)
ROD-BRACED AND
WIRE TRUSSED STRAIGHT
OR SINGLE LADDER

- Specifications same as No. 710 but with rails WIRE TRUSSED as shown in Fig. 1 and 2.
- Sizes and weights same as for No. 710.
- METAL CONDUCTS ELECTRICITY. Keep metal ladder away from live electrical circuits.



TYPE I

Total
Length
Sections

16 ft.
18 ft.
20 ft.
24 ft.
28 ft.
30 ft.
32 ft.
36 ft.
40 ft.
44 ft.
48 ft.

Maximum
Extended
Length

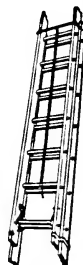
13 ft.
15 ft.
17 ft.
21 ft.
25 ft.
27 ft.
29 ft.
32 ft.
35 ft.
39 ft.
43 ft.

No. 730 COLUMBIA
ROD-BRACED PUSH UP

- Ladder grade rails. Hickory rungs.
- Flared base.
- Automatic gravity type locks. Heavy pressed steel guides.
- EACH HARDWOOD RUNG BRACED WITH ROD.
- Lengths 16 to 40 ft.
- Allow 3 ft. lap up to 32 ft.
- 4 ft. lap on 36 ft.
- 5 ft. lap on 40 ft.
- Weight Approx. 2 1/2 lbs. per ft.

No. 735 COLUMBIA (Type I)
ROD-BRACED AND
WIRE TRUSSED PUSH UP

- Same specifications as No. 730 but with rails WIRE TRUSSED as shown in Fig. 1 and 2.
- Sizes and weights same as for No. 730.
- METAL CONDUCTS ELECTRICITY. Keep metal ladder away from live electrical circuits.



TYPE I

Highest
Standing
Level

9 ft. 9 in.
11 ft. 6 in.
13 ft. 6 in.
17 ft. 6 in.
21 ft. 3 in.
23 ft. 3 in.
25 ft. 3 in.
28 ft.
31 ft.
34 ft. 9 in.
38 ft. 9 in.

No. 750 COLUMBIA
ROD-BRACED ROPE HOIST

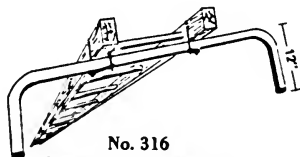
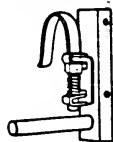
- Best ladder grade rails.
- Strong hickory rungs.
- Automatic gravity type locks.
- Strong steel guides designed for ease of operation.
- EACH HARDWOOD RUNG BRACED WITH ROD.
- Lengths 16 to 44 ft.
- Allow 3 ft. for lap up to 32 ft.
- 4 ft. lap on 36 ft.
- 5 ft. lap on 40 ft. and longer.
- Weight approx. 2 1/2 lbs. per ft.

No. 755 COLUMBIA (Type I)
ROD-BRACED AND
WIRE TRUSSED ROPE HOIST

- Specifications same as No. 750 but with rails WIRE TRUSSED as shown in Fig. 1 and 2.
- Sizes and weights same as for No. 750.
- METAL CONDUCTS ELECTRICITY. Keep metal ladder away from live electrical circuits.

No. 801
FOLDING ALUMINUM
CABLE HOOKS

- Fits any extension ladder.
- Folds inside rails when not in use.
- Weight 2 lbs. pair.

No. 316
STAND-OFF BRACKET

Made from heavy gauge square aluminum tubing 48" length. Straddles most windows. Easily attached. Fits all ladders. Weight 6 lbs. each.

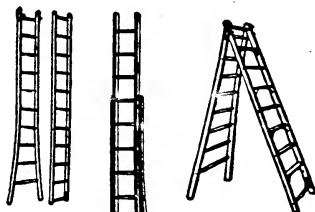
No. 802
FOLDING LADDER HOOK

- Two hooks required.
- Fastened inside rails.
- Fold toward center.
- Weight 5 lbs. per pair.



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Total Length Sections	Maximum Extended Length	Highest Standing Level
12 ft.	9 ft.	5 ft. 4 in.
14 ft.	11 ft.	7 ft. 4 in.
16 ft.	13 ft.	9 ft. 8 in.
20 ft.	17 ft.	13 ft. 6 in.

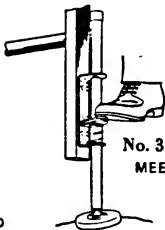
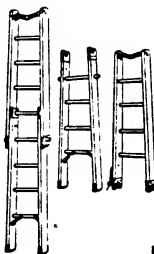
No. 820 "COLUMBIA" STEP AND EXTENSION LADDER

- Rails made of best ladder grade lumber, machined to full size.
- Hardwood rungs. Flared base.
- Heavy steel guide and top irons.
- Made for industrial use as a Stepladder or one Extension Ladder.
- Ideal for sign hanger's use.
- Made in lengths 12 to 20 ft.
- Average wt. 2 lbs. per ft. (as extension ladder)

No. 872 ESTIMATORS LADDERS

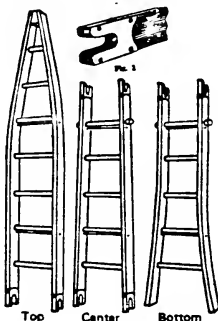
NOTE — SET CONSISTS OF 2 - 5 FT. SECTIONS
ASSEMBLED LENGTH 9 FT.

- Hickory rungs.
- Both sections tapered.
- Bottom section equipped with wrap around shoes.
- Top section equipped with metal pole rest.
- Steel pin to lock sections in place during use.
- Woodlife treated.
- Weight 10 lbs. per section



No. 314 LADDER-LEG LEVEL MEETS OSHA REQUIREMENTS

- Extends ladder legs 11".
- Weight 5 lbs. pair.

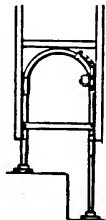


No. 870 WINDOW CLEANERS' NOTE! NOT TO EXCEED 21 FT. TOTAL ASSEMBLED LENGTH.

- Hickory rungs.
- Bottom sections flared, 4 ft. long.
- Center sections 8 ft. long.
- Top sections pointed, 6, 7 and 8 ft. long.
- Rivet and metal plate reinforced. (Fig. 1)
- Weight 1 1/2 lbs. per ft.
- Woodlife treated.

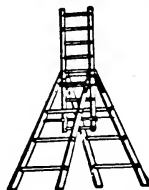
No. 871 ESTIMATORS SECTIONS

- Similar to No. 870.
- Bottom sections 4 ft. long.
- Center section 4 ft. long.
- Sections not interchangeable with No. 870
- Woodlife treated.



No. 312 LADDER LEVELLER MEETS OSHA REQUIREMENTS

- Designed for both single and extension ladders.
- Self adjusting.
- When ordering give distance between inside of rails.
- Weight approx. 8 lbs. ea.



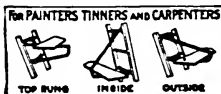
No. 850 "COLUMBIA"
EXTENSION TRESTLE

- Ladder grade rails — Hickory rungs.
 - Strong steel hardware.
 - Center section adjusts to desired height.
- 6 ft. — extended 9 ft. Wt. 48 lbs.
8 ft. — extended 13 ft. Wt. 64 lbs.
10 ft. — extended 17 ft. Wt. 80 lbs.
12 ft. — extended 21 ft. Wt. 95 lbs.
14 ft. — extended 25 ft. Wt. 112 lbs.



No. 790 "COLUMBIA" EXTENSION PLANK

- Working Load 225 lbs.
- Made of selected ladder stock.
- Furnished in the following sizes:
Length 6 ft. — extended 10 ft. 6 in. Wt. 28 lbs.
Length 7 ft. — extended 12 ft. 6 in. Wt. 32 lbs.
Length 8 ft. — extended 13 ft. 6 in. Wt. 36 lbs.
- 6 and 7 ft. made in two sections.
- 8 ft. made in three sections.



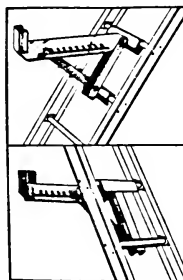
No. 810 "ADJUSTABLE"
LADDER JACK

- Reversible type adjustable to three different positions.
- Made of High Carbon Manganese for strength and safety.
- Weight 19 lbs. per pair.



No. 780 "COLUMBIA"
PAINTERS' TRESTLE

- A rigid trestle made of selected ladder rails and hardwood oval rungs.
- Extra rod and angle bracing.
- Opposite sections staggered for six inch levels.
- Heavy steel hinges.
- Lengths 6 to 14 ft.
- Wt. approx. 5 lbs. per ft.



No. 814 "FLYWEIGHT"
ALUMINUM LADDER JACK

- Rust-proof and durable
- Holds planks 19" wide.
- Fits either inside or outside ladder.
- Eight stops on adjustment bar.
- Pre-fits any 12" rung ladder.
- Weight 9 lbs. per pair.



No. 33M
SPRING LOADED CASTER

Step or platform ladders can easily be made portable by these spring loaded casters. Can be mounted inside or outside rails. Casters swivel 360°
Weight 4½ lbs. per set of four.

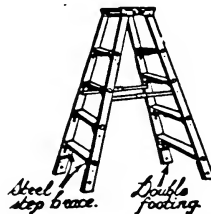


No. 880 "COLUMBIA"
PLATFORM LADDER

No. 880 SPECIFICATIONS

Size	Height to Platform	Height to Top Rack	Approx. Wt. Lbs. Each
No. 5	2' - 10"	4' - 10"	21
No. 6	3' - 10"	5' - 10"	26
No. 8	5' - 7"	7' - 7"	34
No. 10	7' - 6"	9' - 6"	43
No. 12	9' - 5"	11' - 5"	52

- Self locking safety platform.
- Large top work shelf
- Rigidly braced.
- Made of selected ladder stock.



No. 480 COLUMBIA
"STOCK BOY" LADDER

THIS TIME SAVING "STOCKROOM" LADDER
CAN BE USED FROM EITHER SIDE

- Top protected by steel caps.
- Large "Working area" on top 11" x 15".
- Wide, comfortable steps.
- Light weight — easy to move.
- Steps set in steel sockets—solidly trussed.
- Double base reinforcement.
- Metal parts bolted and riveted to steel parts.
- CAN BE FOLDED COMPACTLY FOR STORAGE
- Sizes 3, 4, 5 and 6 ft. Wt. 5½ lbs. per ft.
- Longer lengths on special order.

No. 481 COLUMBIA
"STOCK BOY" LADDER

WITH SPRING LOADED SWIVEL CASTERS

- Same as No. 480; except equipped with four spring loaded casters.

No. 900 COLUMBIA ALUMINUM STAGE

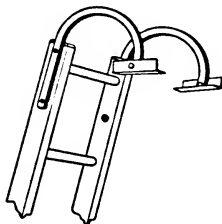


500 lbs. LOAD CAPACITY -

Two men Industrial Stage

Width	Length	Siderail Depth	Weight
12"	20 ft.	6"	86 lbs.
	24 ft.	6"	105 lbs.
	28 ft.	6"	124 lbs.
	32 ft.	6"	138 lbs.
20"	20 ft.	6"	100 lbs.
	24 ft.	6"	120 lbs.
	28 ft.	6"	140 lbs.
	32 ft.	6"	157 lbs.
24"	20 ft.	6"	110 lbs.
	24 ft.	6"	132 lbs.
	28 ft.	6"	152 lbs.
	32 ft.	6"	172 lbs.
28"	20 ft.	6"	120 lbs.
	24 ft.	6"	144 lbs.
	28 ft.	6"	168 lbs.
	32 ft.	6"	192 lbs.

I-beam siderails and non-slip decking used on all stages.



No. 799G ROOF LADDER HOOKS

- Designed with special plates to protect roof.
- Safe! Automatically self leveling.
- Easily bolted on ladder.
- Made specifically for television and other roof work.
- Weights 9 lbs. per pair.

No. 799

- Same as above but without shoes.

ALUMINUM AND PLYWOOD STAGING PLANKS.



- Single-span aluminum channels between plywood for strength.
- Highest quality Douglas Fir plywood on both working surfaces.
- Aircraft-type construction, plywood riveted to aluminum channels.

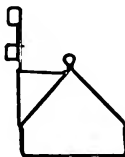
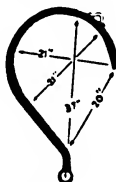
AVAILABLE IN FOLLOWING SIZES

"12" INCHES WIDE			"14" INCHES WIDE		
Model No.	Length Feet	Weight Lbs.	Model No.	Length Feet	Weight Lbs.
1212	12'	34#	1214	12'	37#
1612	16'	43#	1614	16'	46#
2012	20'	56#	2014	20'	63#
2412	24'	69#	2414	24'	74#
2812	28'	102#	2814	28'	109#
3212	32'	123#	3214	32'	132#

"20" INCHES WIDE			"24" INCHES WIDE		
Model No.	Length Feet	Weight Lbs.	Model No.	Length Feet	Weight Lbs.
1220	12'	54#	1224	12'	65#
1620	16'	66#	1624	16'	77#
2020	20'	85#	2024	20'	96#
2420	24'	108#	2424	24'	127#
2820	28'	127#	2824	28'	157#
3220	32'	145#	3224	32'	175#

No. 793 ROOF HOOKS

- Made in two sizes.
- High grade steel.
- Safety ring on hook end.
- 24 inches . . 50 lbs. per pair

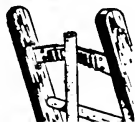


No. 794 SCAFFOLD STIRRUPS

- Welded construction.
- Adjustable bumper sleeves.
- Has required safety features.
- 24 inches . . 38 lbs. per pair

No. 2 POLE STRAP

- A safety feature when working around a pole or building corner.
- Bolts solidly on ladder.
- Weight 1 lb. each.





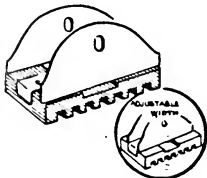
No. 305 EXTENSION LADDER SHOES

- * Easily installed. May be used in two positions.
- * Rubber and cord construction with ridge prevents slipping.
- * By swinging shoe steel spike can be used for snow, ice, ground or asphalt.
- * Wt. 1 1/4 lbs. per pair.



No. 304 WRAP AROUND SHOES

- * 1/2 lb. per ft.



No. 309 "ADJUSTABLE" STEPLADDER SHOES

- * Fits rails from 3/4" to 1 1/2" in width.
- * Easily installed.
- * Safety tread.
- * Wt. 1 1/2 lbs. per pair.



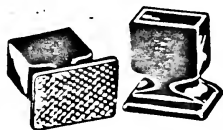
No. 306 MOULDED SHOES FOR STEP LADDERS

- * Made to fit 13/16"x2 1/4" rails.
- * 13/16"x1 1/8" back legs.
- * Non-standard rails can be shaped to fit sockets.
- * Furnished in sets of four for one ladder
- * Wt. 1/4 lb. per set.



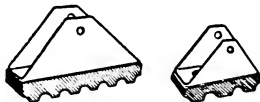
No. 310 WALL GRIP

- * Fits any ladder rail.
- * Cord in neoprene tread complete with attaching hardware.
- * Holds top of any ladder securely against any wall. Prevents side slipping.
- * Wt. 1 lb. per pair.



No. 308 NEOLASTIC RUBBER EXTENSION LADDER SHOES

- * Always "flat"—no matter what angle you place the ladder.
- * Easily installed.
- * Fits standard extension ladder rails.
- * Wt. 1 1/2 lbs. per pair.



No. 307 STEPLADDER SHOES

- * Best for heavy duty service.
- * Slip-resistant treads riveted to metal shoe body.
- * Fits 13/16" thick front and back legs. Adapts to 2 1/4" rails and 1 1/4" wide back legs.
- * Easily installed.
- * Weight 1/2 lb. per set of four.

No. 317 STEPLADDER SHOES

- * Same design as No. 307
- * Fits 13/16" thick front and back legs. Adapts to 3 1/4" rails and 2 1/4" wide back legs.
- * Weight 1/3 lb. per set of four.

No. 327 STEPLADDER SHOES

- * Same design as No. 307.
- * Fits 1-3/16" thick front and back legs.
- * Complete with rivets, easily installed.
- * Weight 1/3 lbs. per set of four.

ALUMINUM LADDER SHOES



No. 1261 M



No. AL305

Photos and artwork shown are illustrative only. Product's occupational use must conform with safe practices and federal, state and city codes.

Coveralls



- 65% Celanese Fortrel® Polyester/35% Combed Cotton
- 7½ oz. Twill Durable Press
- Bi-swing action back
- Two-way zipper front
- Side vent openings
- Rule pocket
- Colors available: Charcoal, Navy, Orange, Postman Blue, Spruce Green, White, and Brown

IT'S FORTREL

That's all you need to know.
Fortrel® is a trademark
of Fiber Industries, Inc.,
a subsidiary of
Celanese Corporation.

COVERALL UNIFORM SUPPLY

COVERALLS

ACTION BACK

COLOR	LOT NO.
White	CT10WH
Navy	CT10NV
Orange	CT10OR
Postman Blue	CT10PB
Charcoal	CT10CH
Spruce Green	CT10SG
Brown	CT10BN

DESCRIPTION: • 65% Polyester 35% Combed Cotton • 7 3/4 oz. Twill Durable Press
• Bi-Swing Action Back • Side Vent Openings
• Two-way Zipper Front

SIZES AVAILABLE: Regulars 34-54; Longs 38-50

ECONO

Orange	CL12OR
White	CL12WH
Tan	CL12TN
Navy	CL12NV
Spruce Green	CL12SG

DESCRIPTION: • 65% Polyester 35% Combed Cotton • Double Needle Felled Seams
• 7 1/2 oz. Leno Weave Durable Press • Plain Back Model
• Gripper Closure Front & Cuffs • No Rule Pocket

SIZES AVAILABLE: Regulars S-XXL; No Longs Available

100% COTTON

Fisher H.B. Twill	CC14HB*
Navy	CC14NV
Postman Blue	CC14PB
Bleached White	CC14WH
Unbleached White	CC14NT
Int. Orange	CC14OR

DESCRIPTION: • Stainless Steel Gripper Closures • Side Vent Openings
• Double Needle Felled Seams

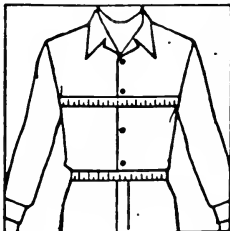
SIZES AVAILABLE: Regulars 36-54; Longs 38-48
*Also Regulars in 34; Longs in 50-54

HOW-TO-MEASURE:

CHEST SIZE: Place tape measure around fullest part of chest & over clothing to be worn, keeping it up under arms and around the shoulder blades. Number of inches is your size.

NOTE: If waist sizes are larger than chest sizes use waist measurement as size.

LENGTH SIZE: If customer is over 6'1" they should be given a long.



CLOSED LEG BENCHES

0-13

Equipto closed leg cabinet benches combine high efficiency bench features with the important benefits of cabinet storage. Choose models from 4 Series for a range of standard features to fit your exact needs—all adapted from a rugged structural unit that's designed for tough use. Quality you can count on, with lots of flexibility for adding accessories.

High performance benches that provide truly lasting efficiency. From basic models with open cabinet space to value-packed units with sliding doors and internal shelves, there's a bench to accommodate every work situation. Models in 4 Series are adapted from a solid, closed bench unit featuring a rugged steel top with rolled front edges and back panel, fully enclosed back and electrical knockouts for convenient, bench leg power access. The 265 Series bench provides side and back enclosure with open front and a spacious bottom shelf. Additional shelves and drawers may be added for expanding below-bench storage. Series 280 benches add the convenience of 2 lockable, easy-pull drawers. For storing larger items or stacking, select the 227 Series closed bench with channelled, smooth-sliding doors with turnbuckle locks, chrome handles and recessed, closed base. Or, for ultimate efficiency, the 275 Series unit with all the features of the 227, plus an intermediate shelf. All with a choice of 4 high-function bench tops.

Tops

Available in 4 different types: 12 gauge (104) steel with rolled front edge, masonite bonded to 12 ga. steel, wood block core with bonded, pressed wood surface (1 1/4" thick), laminated maple top (1 1/4" thick).

Drawers

Whether supplied, or added as accessories (singly or in units), drawers provide trouble-free, nylon roller performance for efficient, lockable bench storage.

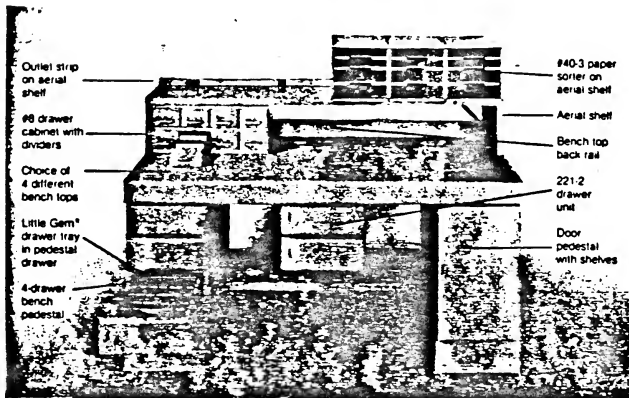
Electrical Knockouts

Husky bench legs feature knockouts for easy installation of receptacles. Provide convenient power access right where it's needed—at the bench site.

Bench Length	Top Material	275 Series With Center Shelf	227 Series No Center Shelf	280 Series With Drawers	265 Series No Drawer
5'	Steel (104)	275-5	227-5	280-5	265-5
6'	Steel (104)	275-6	227-6	280-6	265-6
5'	Masonite on steel	276-5	228-5	281-5	266-5
6'	Masonite on steel	276-6	228-6	281-6	266-6
5'	Maple	277-5	227-5W	282-5	267-5
6'	Maple	277-6	227-6W	282-6	267-6
5'	Bonded wood	278-5	227-5B	283-5	268-5
6'	Bonded wood	278-6	227-6B	283-6	268-6

Dimensions—Steel 34 1/4"Hx27 1/2"D. Wood 35 1/4"Hx30"D. Shelves for 265 Series 6325A-5 ft or 6326A-6 ft

Getting the most out of Equipto closed benches is as simple as taking advantage of their built-in design flexibility. There's an innovative Equipto accessory to meet your changing requirements—whenever they occur. Simple additions to units designed to accommodate expansion will keep you functioning at peak efficiency. Consider adding one or more of these accessories to your benches.



Top

Four durable tops for a range of requirements: 12 ga. cold rolled steel, 1/4" masonite bonded to 12 ga. steel, bonded wood, or laminated hardwood (maple).

Steel Tops 12 gauge (104)

Description	Catalog No.
4' long with rear rail	11470
5' long with rear rail	11468
6' long with rear rail	11466
15' long with rail	11473
30' long with rail	11475

Masonite on Steel

4' long with rail	11471
5' long with rail	11467
6' long with rail	11469
15' long with rail	11474
30' long with rail	11476

Bonded Wood (1 1/4" thick)

4' long x 30" deep	12348
6' long x 30" deep	12349

Solid Maple (1 1/4" thick)

5' long x 30" deep	12338
6' long x 30" deep	12340



File Drawer

Mounts under any closed bench top. Steel, with adjustable divider; rear handle grip. Includes brackets, hardware, lock and keys.

Description	Catalog No.
14 1/2" Wx25 1/4" Dx13 1/2" H	244C

#6 Drawer Cabinet

Welded, 8-drawer unit for easy-access bench top storage.

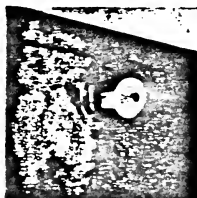
Description	Catalog No.
23" Wx9 1/4" Hx12" D with 8 #6505 drawers	8

Little Gem® Drawer Trays

Description	Catalog No.
Scop bottom Type A, 12 adj. compartments	8522
Flat bottom Type B, 16 adj. compartments	8523

Paper Sorter

Handy stackable units for storing, sorting and organizing flat items in benches. See page 97.



Locks

Lock assembly fits all bench drawers and doors (padlock hasp is standard) for added security in storing valuable items.

Description	Catalog No.
Key lock	10405
Master key	10405M

Aerial Shelf

For Bench

Description	Catalog No.
Any 5' unit	225-5
6' unit with steel or masonite top	226-6
6' unit with maple or bonded wood top	226-72

Drawer Units

Single, double or triple units for mounting under benches. Durable, frame units provide safe, clean storage for valuable parts and supplies.

Description	Drawer Size	Catalog No.
Single-drawer starter unit	15" Wx24" Lx6 1/4" H	221
Single-drawer add-on unit for #221	15" Wx24" Lx6 1/4" H	221A
Single-drawer starter unit	21 1/2" Wx24" Lx7 3/4" H	223
Single-drawer add-on unit for #223	21 1/2" Wx24" Lx7 3/4" H	223A
Two-drawer cabinet unit	15" Wx24" Lx12 1/2" H	221-2
Two-drawer cabinet unit	21 1/2" Wx24" Lx15 1/2" H	223-2
Three-drawer cabinet unit	15" Wx24" Lx18 1/4" H	221-3
Three-drawer cabinet unit	21 1/2" Wx24" Lx23 1/4" H	223-3



Number Plates

Simplify tool location and control procedures by affixing number plates to bench drawers and doors. Available for any number 1 to 500 (please specify).

Description	Catalog No.
Number plate	13013

Electrical Outlet Strip

Attach to rear rail of steel or masonite top benches. Four outlets. 15 amp. 110v.

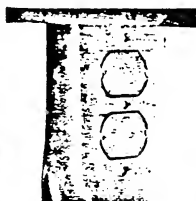
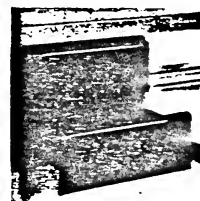
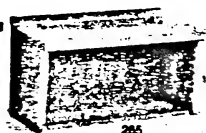
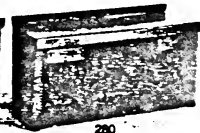
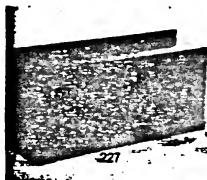
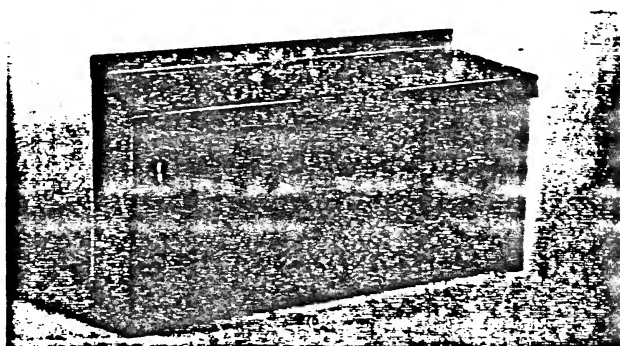
Description	Catalog No.
Fits 5' bench	219-5
Fits 6' bench	219-6
Entrance end for connecting 1/2" conduit or BK to above	2010

Pedestals for Benches

Description	Catalog No.
Door pedestal (no top)	2131LT
4-drawer pedestal (no top)	2137LT
1-drawer pedestal (no top)	2901LT

Equipto closed leg cabinet benches combine high-efficiency bench features with the important benefits of cabinet storage. Choose models from 4 Series for a range of standard features to fit your exact needs—all adapted from a rugged structural unit that's designed for tough use. Quality you can count on, with lots of flexibility for adding accessories.

High performance benches that provide truly lasting efficiency. From basic models with open cabinet space to value-packed units with sliding doors and internal shelves, there's a bench to accommodate every work situation. Models in 4 Series are adapted from a solid, closed bench unit featuring a rugged steel top with rolled front edges and back panel, fully enclosed back and electrical knockouts for convenient, bench leg power access. The 265 Series bench provides side and back enclosure with open front and a spacious bottom shelf. Additional shelves and drawers may be added for expanding below-bench storage. Series 280 benches add the convenience of 2 lockable, easy-pull drawers. For storing larger items or stacking, select the 227 Series closed bench with channelled, smooth-sliding doors with lumber locks, chrome handles and recessed, closed base. Or, for ultimate efficiency, the 275 Series unit with all the features of the 227, plus an intermediate shelf. All with a choice of 4 high-function bench tops.



Tops

Available in 4 different types: 12 gauge (104) steel with rolled front edge, masonite bonded to 12 ga. steel, wood block core with bonded, pressed wood surface (1 1/4" thick), laminated maple top (1 1/4" thick).

Drawers

Whether supplied, or added as accessories (singly or in units), drawers provide trouble-free, nylon roller performance for efficient, lockable bench storage.

Electrical Knockouts

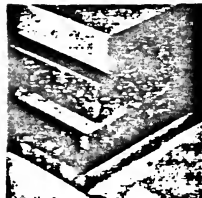
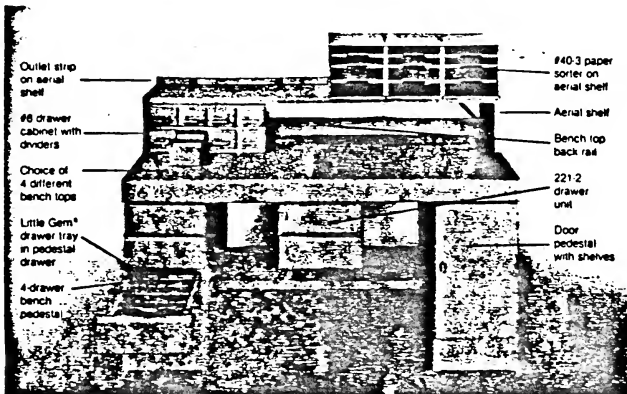
Husky bench legs feature knockouts for easy installation of receptacles. Provide convenient power access right where it's needed—all at the bench site.

Bench Length	Top Material	275 Series With Center Shelf	227 Series No Center Shelf	280 Series With Drawers	265 Series No Drawer
5'	Steel (104)	275-5	227-5	280-5	265-5
6'	Steel (104)	275-6	227-6	280-6	265-6
5'	Masonite on steel	276-5	228-5	281-5	266-5
6'	Masonite on steel	276-6	228-6	281-6	266-6
5'	Maple	277-5	227-5W	282-5	267-5
6'	Maple	277-6	227-6W	282-6	267-6
5'	Bonded wood	278-5	227-5B	283-5	268-5
6'	Bonded wood	278-6	227-6B	283-6	268-6

Dimensions—Steel 34 1/4"Hx27 1/4"D. Wood 35 3/4"Hx30"D. Shelves for 265 Series 6325A 5 ft. or 6326A 6 ft.

CLOSED BENCH ACCESSORIES

Getting the most out of Equipto closed benches is as simple as taking advantage of their built-in design flexibility. There's an innovative Equipto accessory to meet your changing requirements—whenever they occur. Simple additions to units designed to accommodate expansion will keep you functioning at peak efficiency. Consider adding one or more of these accessories to your benches.



Tops

Four durable tops for a range of requirements. 12 ga. cold rolled steel, 1/4" masonite bonded to 12 ga. steel, bonded wood, or laminated hardwood (maple).

Steel Tops 12 gauge (104)

Description	Catalog No.
4' long with rear rail	11470
5' long with rear rail	11468
6' long with rear rail	11466
15' long with rail	11473
30' long with rail	11475

Masonite on Steel

4' long with rail	11471
5' long with rail	11467
6' long with rail	11469
15' long with rail	11474
30' long with rail	11476

Bonded Wood (1 1/4" thick)

4' long x 30" deep	12348
6' long x 30" deep	12348

Solid Maple (1 1/4" thick)

5' long x 30" deep	12336
6' long x 30" deep	12340



File Drawer

Mounts under any closed bench top. Steel, with adjustable divider; rear handle grip. Includes brackets, hardware, lock and keys.

Description	Catalog No.
14 1/2" Wx25 1/4" Dx13 1/2" H	244C

#6 Drawer Cabinet

Welded, 8-drawer unit for easy-access bench top storage.

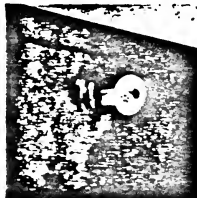
Description	Catalog No.
23 1/2" Wx9 1/4" Hx12" D with 8 #6505 drawers	8

Little Gem® Drawer Trays

Description	Catalog No.
Scoop bottom Type A 12 adj. compartments	8522
Flat bottom Type B 16 adj. compartments	8523

Paper Sorter

Handy stackable units for storing, sorting and organizing flat items in benches. See page 97.



Locks

Lock assembly fits all bench drawers and doors (padlock hasp is standard) for added security in storing valuable items.

Description	Catalog No.
Key lock	10405
Master key	10405M

Aerial Shelf

Description	Catalog No.
Any 5' unit	225-5
6' unit with steel or masonite top	226-6
6' unit with maple or bonded wood top	226-72

Drawer Units

Single, double or triple units for mounting under benches. Durable, frame units provide safe, clean storage for valuable parts and supplies.

Description	Drawer Size	Catalog No.
Single-drawer starter unit	15"Wx24"Lx6 1/4"H	221
Single-drawer add-on unit for #221	15"Wx24"Lx6 1/4"H	221A
Single-drawer starter unit	21 1/2"Wx24"Lx7 3/4"H	223
Single-drawer add-on unit for #223	21 1/2"Wx24"Lx7 3/4"H	223A
Two-drawer cabinet unit	15"Wx24"Lx12 1/2"H	221-2
Two-drawer cabinet unit	21 1/2"Wx24"Lx15 1/2"H	223-2
Three-drawer cabinet unit	15"Wx24"Lx18 1/4"H	221-3
Three-drawer cabinet unit	21 1/2"Wx24"Lx23 1/4"H	223-3



Number Plates

Simplify tool location and control procedures by affixing number plates to bench drawers and doors. Available for any number 1 to 500 (please specify).

Description	Catalog No.
Number plate	13013

Electrical Outlet Strip

Attach to rear rail of steel or masonite top benches. Four outlets, 15 amp 110v.

Description	Catalog No.
Fits 5' bench	218-5
Fits 6' bench	218-6
Entrance end for connecting 1/2" conduit or BX to above	2010

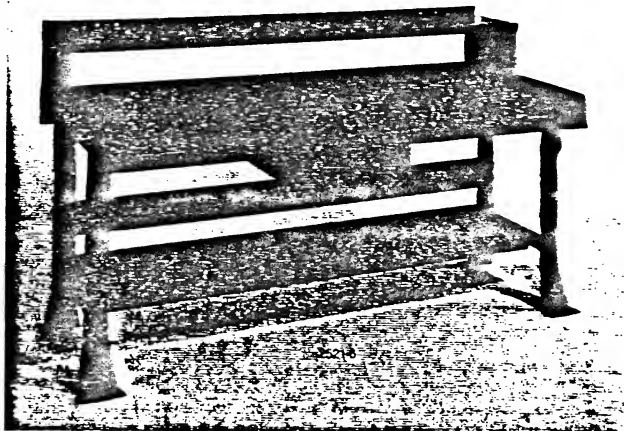
Pedestals for Benches

Description	Catalog No.
Door pedestal (no top)	2331T
4-drawer pedestal (no top)	2371T
1-drawer pedestal (no top)	2901T

OPEN LEG BENCHES

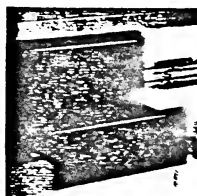
The Equipito 2500 Series bench—an open, module style unit with standard features that revolutionize bench efficiency. Everything to accommodate your situation—counter, shelf and drawer space in one rugged unit—in 48 sizes and types.

With Equipito 2500 Series benches you can customize more than ever, to fit your work area requirements. Available in a range of sizes, these durable units feature a choice of four tops, channel steel legs with electrical knockouts for plug-ins; full bottom shelf, one No. 220 bench drawer with a latching handle and provision for padlock, back and end rails to keep items from sliding off the top, and a 12" deep aerial shelf with backstop. Bench top choices of steel, masonite on steel, bonded wood or laminated maple. Additional aerial shelves can be bolted on top of the one supplied, and fitted with outlet strips, drawers, etc. Under-bench storage is easily expanded by adding more drawers. See Bench Parts and Accessories



Tops

Available in 4 different types: 12 gauge (104) steel with rolled front edge, masonite bonded to 12 ga steel, wood block core with bonded, pressed wood surface (1 1/4" thick), laminated maple top (1 1/4" thick.)



Drawers

Pfister-proof, enclosed frame, in 2 widths and heights, for mounting up to 3 wide and 3 high. Drawer has full suspension roller action, with rounded fronts, rear stops, latch, hasp and knockout for locks



Electrical Knockouts

Bench legs accept regular outlets, both front and rear, with room for a 1/2" conduit down the inside of the leg. Allows convenient, safe use of power tools right at your bench site.

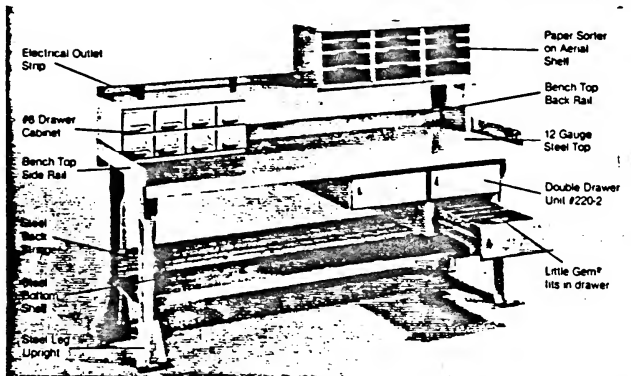
2500 Series

Width	Top Material	29" Deep (Wood or Bonded Wood 30" Deep)			36" Deep		
		29" High Leg*	31 1/2" High Leg*	33 1/2" High Leg*	29" High Leg*	31 1/2" High Leg*	33 1/2" High Leg*
5'	12 Gauge Steel	2521-5	2522-5	2523-5	2531-5	2532-5	2533-5
5'	Masonite on Steel	2521-5M	2522-5M	2523-5M	2531-5M	2532-5M	2533-5M
5'	Bonded Wood	2521-5B	2522-5B	2523-5B	2531-5B	2532-5B	2533-5B
5'	Laminated Maple	2521-5W	2522-5W	2523-5W	2531-5W	2532-5W	2533-5W
6'	12 Gauge Steel	2521-6	2522-6	2523-6	2531-6	2532-6	2533-6
6'	Masonite on Steel	2521-6M	2522-6M	2523-6M	2531-6M	2532-6M	2533-6M
6'	Bonded Wood	2521-6B	2522-6B	2523-6B	2531-6B	2532-6B	2533-6B
6'	Laminated Maple	2521-6W	2522-6W	2523-6W	2531-6W	2532-6W	2533-6W

* Actual bench working height depends on type of top

M—Masonite on steel; B—Bonded wood; W—Laminated maple

Equipto Open Leg Benches are carefully engineered with the flexibility for planned expansion. Our complete line of parts and accessories allow you to custom build bench units from scratch, or expand, modify and adapt existing units to keep up with changing requirements—with assured Equipto quality and performance. Make your people more efficient with these helpful accessories.



Tops

Available in 4 different types: 12 ga. (.104) steel with rolled front edge, masonite bonded to 12 ga. steel, wood block core with bonded, pressed wood surface (1 1/4" thick), laminated maple top (1 1/4" thick).

Steel Tops (12 gauge)

Depth	Width	Weight	Catalog No.
29"	5'	64 lb.	11434
29"	6'	78	11436
36"	5'	75	11440
36"	6'	90	11442

Masonite on 12 ga. Steel

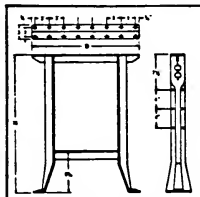
Depth	Width	Weight	Catalog No.
29"	5'	74 lb.	11435
29"	6'	90	11437
36"	5'	86	11441
36"	6'	103	11443

Bonded Wood, 1 1/4" thick

Depth	Width	Weight	Catalog No.
30"	5'	85 lb.	12348
30"	6'	105	12349
36"	5'	100	12351
36"	6'	120	12352

Laminated Maple, 1 1/4" thick

Depth	Width	Weight	Catalog No.
30"	5'	88 lb.	12339
30"	6'	108	12340
36"	5'	105	12342
36"	6'	125	12343



Bench Legs

Welded, one-piece steel units seamed for strength and safety.

Depth	Height	Weight	Catalog No.
28 1/2"	29"	14 lb.	9921
28 1/2"	31 1/4"	15	9922
28 1/2"	33 1/4"	16	9923
34 1/2"	29"	16	9931
34 1/2"	31 1/4"	16	9932
34 1/2"	33 1/4"	17	9933

Aerial Shelves

May be bolted on top of another.

Height	Depth	Fits	Catalog No.
11"	12"	5 bench	225-5
11"	12"	6 bench	226-72

Electrical Outlet Strip

Size	Catalog No.
5' bench	219-5
6' bench	219-6

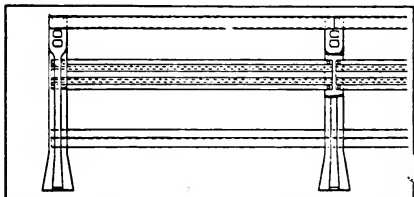
Entrance and fitting for connecting 1/2" conduit or BX 10 above.

Bottom Shelves

Size	Weight	Catalog No.
12 1/4"x5'	19 lb.	8121
12 1/4"x6'	25 lb.	8122

Back Stringers

Size	Weight	Catalog No.
5'	7 lb.	10252
6'	8 lb.	10253



Back and End Rails

Description	Wt.	Catalog No.
5' back rail	6 lbs.	7402
6' back rail	7	7403
29" right end rail	3	7412R
29" left end rail	3	7412L
36" right end rail	4	7413R
36" left end rail	4	7413L

#8 Drawer Cabinet

Welded, 8-drawer cabinet unit fits between bench counter and aerial shelf for convenient, easy access drawer storage.

Description	Catalog No.
23"Wx9 1/2"Hx12"D with 8 No. 8505 drawers (See 3 1/4" High Drawers, Pg. 41)	8

Little Gem Drawer Trays

Description	Catalog No.
Scoop bottom Type A, 12 ad. compartments	8522
Flat Bottom Type B, 16 ad. compartments	8523

Drawers for Benches

For complete description see Pg. 87.

Hgt.	Width	Depth	Wt.	Cat. No.
6 1/4"	15"	23 1/4"	27 lb.	220
12 1/4"	15"	23 1/4"	46	221
18 1/4"	15"	23 1/4"	65	222
6 1/4"	15"	23 1/4"	27	221A
7 1/4"	21 1/4"	23 1/4"	33	222
15 1/4"	21 1/4"	23 1/4"	62	222-2
23 1/4"	21 1/4"	23 1/4"	91	222-3
7 1/4"	21 1/4"	23 1/4"	33	223A

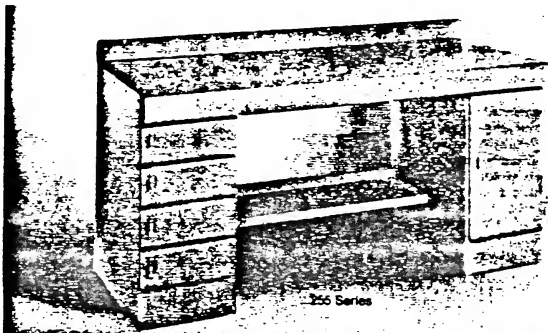
Continuous Rows

Using one leg to support adjoining bench parts (above) saves both money and space when creating continuous rows of side-to-side benches. Equipto bench legs are engineered with double sets of fastening holes for attaching tops, back stringers and shelves. When benches are used singly, the outer leg holes are used; when attached in rows of multiple units, the inner holes are used to provide common leg support for 2 units. Economy, with no loss of structural strength. Order parts from this table to custom design your own bench rows. Achieve the efficiency that running work space provides—simply and without unnecessary duplication of parts. Add Equipto accessories to achieve full bench efficiency in multiple unit assemblies.

PEDESTAL BENCHES

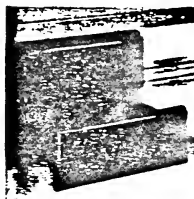
Equipto Pedestal Benches offer the perfect bench/cabinet combination. Strong, closed leg units with rugged work surfaces, lower shelf space and the security of cabinet and drawer storage. Choose from 4 different bench tops, and available accessories for truly custom designs.

Rugged, function-packed, closed benches with a lower recessed shelf, and your choice of 3 types of pedestals: combination drawer and cabinet, drawers only, or door cabinets only. Four bench top materials to match any use requirement. Strong, unitized construction with quality standard features: 12 gauge steel tops with raised back stops, middle shelf in door cabinets for extra storage of larger items, smooth, rounded corners throughout. Drawers and cabinets are individually locking, for clean, pilfer-proof storage. Full roller-suspension drawers operate with fingertip ease. Whatever the model, each bench will handle 3 or more additional drawers, as well as numerous custom accessories for reaching maximum use potential. Unlimited in their versatility, Series 250, 255 and 260 benches can be arranged (and attached) in all kinds of innovative ways to create productive work centers.



Top

Available in 4 different types: 12 gauge (104) steel with rolled front edge, masonite bonded to 12 ga steel, wood block core with bonded, pressed wood surface (1 1/4" thick), laminated maple top (1 3/4" thick.)



Drawers

Welded frame units in 2 sizes for mounting either singly or in twos or threes under benches. Quiet, full suspension roller action; lockable.



Aerial Shelves

Stackable aerial shelves provide convenient, eye-level storage, accept electrical outlet strips, drawers. Expand bench capability, with fast, easy access.



Up to three additional drawers may be attached to all of the benches shown on this page.

Bench Length	Top Material	255 Series	260 Series	250 Series
4'	Steel (104)	255-4	260-4	250-4
5'	Steel (104)	255-5	260-5	250-5
6'	Steel (104)	255-6	260-6	250-6
4'	Masonite on steel	256-4	261-4	251-4
5'	Masonite on steel	256-5	261-5	251-5
6'	Masonite on steel	256-6	261-6	251-6
5'	Maple	257-5	262-5	252-5
6'	Maple	257-6	262-6	252-6
5'	Bonded wood	258-5	263-5	253-5
6'	Bonded wood	258-6	263-6	253-6

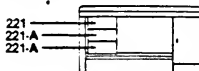
Dimensions—Steel 34 1/4"Hx27 1/2"D, Wood 35 1/4"Hx30"D.

Equipto single pedestal, closed benches provide a rugged work surface, open shelf storage and your choice of either cabinet or drawer pedestals. Efficient, versatile, economical. Equipto modular design offers add-on capability for building multiple-unit structures—wherever you need a long row of benches at modest cost. And they're made to last.

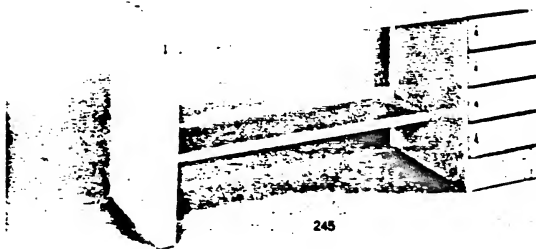
Available in 245 and 240 Series, Equipto single pedestal benches feature rugged, 12 gauge tops with rolled front edges and raised back stops, rigid lower shelves (also with raised stops) for foot rest and/or storage, electrical knockouts on bench legs for convenient power hookups, and smooth, unitized construction throughout. Choose 4', 5' or 6' bench lengths, with steel, masonite on steel, bonded wood or maple tops.

The 245 Series closed leg bench features a 4-drawer pedestal to provide smooth, roller-suspension drawer containment with latch-and-hasp security. The 240 Series bench is designed with a lockable, single-door pedestal with convenient middle cabinet shelf for safe storage of larger items. Benches normally furnished with pedestal on right. If you prefer it on left please specify when ordering.

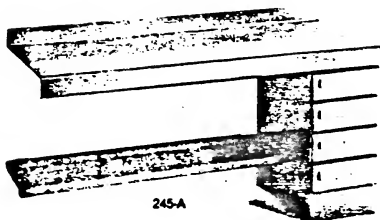
Extra drawers (up to 6) can be attached under either Series bench top to expand storage capacity. Steel or masonite top "starter" units in either style pedestal offer add-on flexibility for side-by-side attachment in rows. Accessories such as aerial shelves, file drawers, sorter units and stools add even more utility to these efficient benches. See Index Page 3.



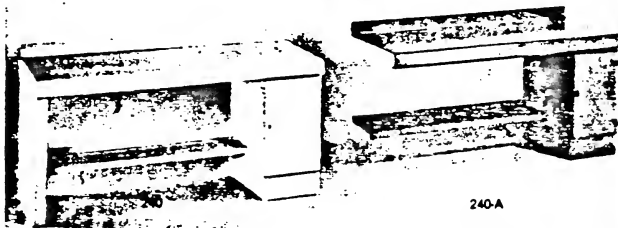
Up to 6 drawers can be added to benches to expand storage capacity.



245



245-A

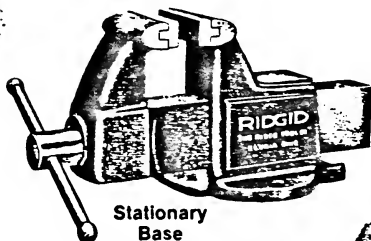


240-A

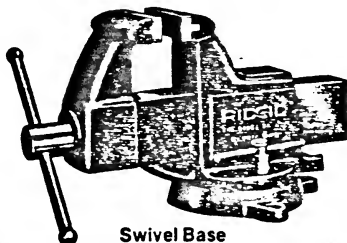
Add-on Units are available from Table below to custom build continuous rows of Equipto single pedestal, closed benches—without duplicating side members. Open-end, add-on units are supplied complete with brackets and without supporting leg, for attaching to starter benches (except where not available.) Pedestals on add-on units can be assembled either on right or left.

Bench Length	Top Material	245 Starter	245A Additional	240 Starter	240A Additional
4'	Steel (.104)	245-4	245-4A	240-4	240-4A
5'	Steel	245-5	245-5A	240-5	240-5A
6'	Steel	245-6	245-6A	240-6	240-6A
4'	Masonite on steel	246-4	246-4A	241-4	241-4A
5'	Masonite on steel	246-5	246-5A	241-5	241-5A
6'	Masonite on steel	246-6	246-6A	241-6	241-6A
5'	Maple	247-5	247-5A	242-5	242-5A
6'	Maple	247-6	—	242-6	—
5'	Bonded wood	248-5	248-5A	243-5	243-5A
6'	Bonded wood	248-6	—	243-6	—

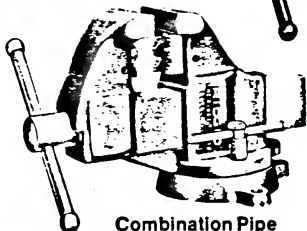
Dimensions—Steel 34 1/4" H x 27 1/2" D, Wood 35 1/4" H x 30" D



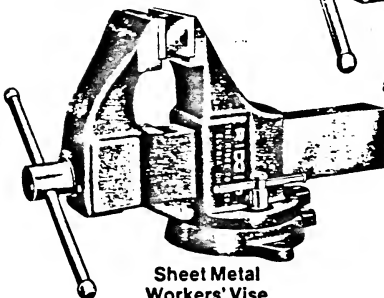
Stationary Base



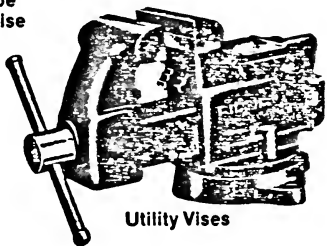
Swivel Base



Combination Pipe and Machinists' Vise



Sheet Metal Workers' Vise



Utility Vises

Stationary Base Vises offer unsurpassed rigidity. Ground and polished anvils are standard on all sizes except 6" and 8". Bases have three bolt holes for firm, accurate bench-top fit. Alloy steel jaw faces can be replaced easily. For maximum gripping power, faces have no

screw heads or holes. Steel nut gives years of reliable, trouble-free service. Graphite bronze bearings for smooth operation. RIDGID Stationary Base Vises are convertible to swivel base models using kits described below.

Catalog Item No.	Model No.	Description	Jaw Width		Jaw Opening		Weight		Standard Pack
			in.	mm	in.	mm	lb	kg	
90660	30-PN	3" Stationary Base	3	75	4	100	21	9.5	1
90665	35-PN	3½" Stationary Base	3½	87	5	125	30	13.6	1
90670	40-PN	4" Stationary Base	4	100	6	150	38	17.3	1
90675	45-PN	4½" Stationary Base	4½	112	7	175	49	22.3	1
90680	50-PN	5" Stationary Base	5	125	8	200	60	27.3	1
90690	60-PN	6" Stationary Base	6	150	10	250	92	41.8	1
90700	80-PN	8" Stationary Base	8	200	12	300	160	72.7	1

Swivel Base Kits Stationary base Machinists' Vises can be easily converted to swivel base vises by installing Swivel Base Kits. Tapered

gear lock bolt eliminates danger of slipping. Swivel base can be installed in minutes. Kit includes washer, bushing, and plug cap.

Catalog Item No.	Model No.	Description	Weight		Standard Pack
			lb	kg	
90960	3"	Swivel Base Kit for Nos. 30-PN, 30-SN	4	1.8	1
90965	3½"	Swivel Base Kit for Nos. 35-PN, 35-SN, 35-CPN	5	2.3	1
90970	4-4½"	Swivel Base Kit for Nos. 40-PN, 40-SN, 45-PN, 45-SN, 45-CPN, 45-CPSN	5	2.3	1
90975	5"	Swivel Base Kit for Nos. 50-PN, 50-SN	10	4.5	1
90980	6"	Swivel Base Kit for Nos. 60-PN, 60-SN, 60-CPN	15	8.8	1
90985	8"	Kit for Nos. 80-PN, 80-SN	24	10.9	1

Swivel Base Vises Maximum convenience and utmost strength are combined in RIDGID Swivel Base Vises which provide full 360° rotation. Steel clamp bolt locks vise in any position. All models have a ground and polished anvil, except 6" and 8" sizes. Long-wearing

alloy steel jaws are easily replaceable. Graphite bronze bearings provide smooth operation. Swivel base models may be converted to stationary base types by removing the swivel base assembly.

Catalog Item No.	Model No.	Description	Jaw Width		Jaw Opening		Weight		Standard Pack
			in.	mm	in.	mm	lb	kg	
90325	30-SN	3" Swivel Base	3	75	4	100	24	10.9	1
90380	35-SN	3½" Swivel Base	3½	87	5	125	35	15.9	1
90425	40-SN	4" Swivel Base	4	100	6	150	43	19.5	1
90470	45-SN	4½" Swivel Base	4½	112	7	175	57	25.9	1
90495	50-SN	5" Swivel Base	5	125	8	200	70	31.8	1
90555	60-SN	6" Swivel Base	6	150	10	250	107	48.6	1
90610	80-SN	8" Swivel Base	8	200	12	300	184	83.6	1

Combination Pipe and Machinists' Vises Steel pipe jaws are accurately milled and carefully hardened to securely grip pipe or round sections as small as ½" diameter. Feature forged steel handle and balls, self-lubricating graphite bronze bearings. In oil fields and

marine applications where both machinists' and pipe vise capabilities are required, the RIDGID Combination Vise offers the best value available.

Catalog Item No.	Model No.	Description	Jaw Width		Jaw Opening		Pipe Capacity		Jaw Depth		Weight		Standard Pack
			in.	mm	in.	mm	in.	mm	in.	mm	lb	kg	
90705	35-CPN	3½" Combination Vise	3½	87	4	100	¼-2½	3-62	4	100	38	17.3	1
90725	45-CPN	4½" Combination Vise	4½	112	5	125	½-3½	3-87	5½	134	61	27.7	1
90745	60-CPN	6" Combination Vise	6	150	10	250	¾-6	3-150	7½	178	162	73.6	1

Sheet Metal Workers' Vise Greater jaw depth and slide action enable this vise to grip extra wide and deep work. Jaws have smooth, hardened steel inserts with a total jaw depth of 5½". Jaws grip sheet

metal or wood securely without marring. Useful where maximum capacity is required.

Catalog Item No.	Model No.	Description	Jaw Width		Jaw Opening		Weight		Standard Pack
			in.	mm	in.	mm	lb	kg	
90790	45-CPSN	4½" Sheet Metal Workers' Vise	4½	112	9	225	63	28.6	1

Utility Vises RIDGID Utility Vises combine the advantages of a swivel base, pipe vise, and anvil in one unit, providing exceptional value for their price range. A steel channel slide, strong castings, and

hardened steel jaws provide durability for long service life. Three sizes are available: No. 3500-R for light-duty home use; Nos. 4000-R and 5000-R for medium-duty garage, farm, home, and shop use.

Catalog Item No.	Model No.	Description	Jaw Width		Jaw Opening		Pipe Capacity		Weight		Standard Pack
			in.	mm	in.	mm	in.	mm	lb	kg	
90820	3500-R	3½" Utility Vise	3½	87	4	100	1½	32	18	7.3	5
90870	4000-R	4" Utility Vise	4	100	5	125	2	50	27	12.2	1
90915	5000-R	5" Utility Vise	5	125	6	150	2½	62	38	17.2	1

Copper Vise Jaw Covers RIDGID Copper Jaw Covers fit any make of vise. Used to eliminate marring or scratching of work being held.

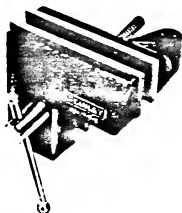
Catalog Item No.	Model No.	Description	Jaw Width		Weight		Standard Pack
			in.	mm	lb	kg	
58045	3"	3" Copper Jaw Covers	3	75	½	0.2	1
58050	3½"	3½" Copper Jaw Covers	3½	87	½	0.3	1
58055	4"	4" Copper Jaw Covers	4	100	¾	0.3	1
58060	4½"	4½" Copper Jaw Covers	4½	112	¾	0.3	1
58065	5"	5" Copper Jaw Covers	5	125	¾	0.4	1
58070	6"	6" Copper Jaw Covers	6	150	1	0.4	1

Vises & Clamps

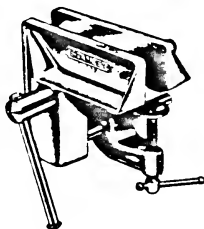
WOODWORKERS' VISES

Vise

Jaw faces are covered with tempered "press-wood", can be replaced.



Product No.	Catalog No.	Jaws Width		Jaws Open	
		Inches	mm	Inches	mm
81-700	80-700	4 $\frac{5}{8}$	115	3 $\frac{1}{2}$	90



Vise

Lightweight aluminum alloy. Acme screw thread for long life. Mounts to bench up to 2 $\frac{1}{4}$ " thick.

Product No.	Catalog No.	Jaws Width		Jaws Open	
		Inches	mm	Inches	mm
81-702	80-702	5	125	3 $\frac{1}{2}$	90

SPRING CLAMPS

FLC No 2702

With Vinyl Grips and Tips

Heavy gauge steel with Vinyl grips and tips to prevent marring work. Jaws specially formed to hold flat or round objects.



Product No.	Catalog No.	Jaw Opening		Length	
		Inches	mm	Inches	mm
83-261	43-161P	$\frac{1}{8}$	22	4 $\frac{1}{16}$	102
83-262	43-162P	$1\frac{3}{4}$	45	6 $\frac{1}{8}$	153
83-263	43-163P	2 $\frac{3}{4}$	70	8 $\frac{1}{8}$	220

Nickel Plated Finish

Heavy gauge steel, bright nickel plated finish. Jaws specially formed to hold flat or round objects.



Product No.	Catalog No.	Jaw Opening		Length	
		Inches	mm	Inches	mm
83-161	43-161	1	25	4	102
83-162	43-162	2	50	6	150
83-163	43-163	3	75	8 $\frac{1}{2}$	215

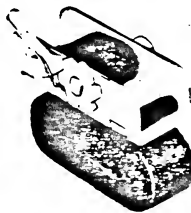
WEB CLAMP

FLC No 2702

Heavy Duty

Tough 12 ft. 365 cm long nylon webbing holds all sizes and irregular shapes under positive, even pressure.

Clamp tightens easily with wrench or screwdriver. Ratchet action keeps webbing tight. Carded.



Product No.

83-159

Catalog No.

41-159



Portable Tristand
Chain Vise



Portable Tristand
Yoke Vise



Bench Yoke Vise



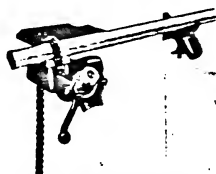
Top Screw Bench
Chain Vise



Bottom Screw
Bench Chain
Vise



Open Side Vise



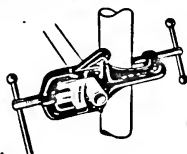
Top Screw Stand Chain Vise



Top Screw Post
Chain Vise



Portable Kit Yoke Vises

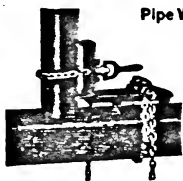


Fits 4" Plank

Fits 4" Post



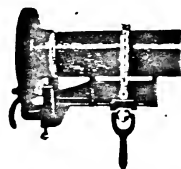
Straight Pipe Welding Vise



Angle Pipe Welding Vise



Elbow Pipe Welding Vise



Flange Pipe Welding Vise

Pipe Welding Vises

Portable Tristand Vises These two portable vises provide a complete workbench. Integral legs and tray fold in for easy carrying and setup. Large vise base overhangs front legs for clear tool swing. Complete with slots for hanging tools, pipe rest, three pipe benders, and ceiling brace screw.

Bench Yoke Vises Yoke and base made of strong, dependable iron. Hardened alloy steel jaws and convenient pipe rest and bender make this an unusually handy, efficient tool.

Bench Chain Vises Easy to operate. Crank handle is anchored to base, can't fall out. Rugged cast iron base has jaws of hardened alloy steel, handy pipe rest, and bender. Capacities of $\frac{1}{8}$ " through 8". Two models available for plastic pipe. Toothless jaws are neoprene-coated to prevent scoring of pipe.

Open Side Vises Makes clamping long pipe lengths quick and easy. Built of special rugged

iron for high strength. Hardened alloy steel jaws provide years of gripping service.

Stand Chain Vise Handy portable stand chain vise. Sturdy cast iron frame, alloy steel jaws. Equipped with pipe rest, pipe bender, and tool tray. Legs and connecting pipe not furnished.

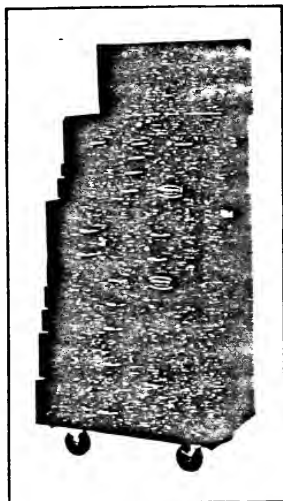
Portable Chain and Yoke Vises Light, strong post chain vise fits any shape or kind of post. Equipped with tray for oil can and handy pipe bender. Portable kit yoke vise easily attaches to plank, workbench, or post. Both are made of special wear-resistant iron with hardened alloy steel jaws.

Pipe Welding Vises Made of durable performance-proven iron and designed to resist strain, heat, and warpage during tacking. Machined swivel nuts and pins, together with special chain screws, give smooth and trouble-free assembling of the vise onto pipe. The relatively light weight of each vise permits easy handling for any type of mounting.

Catalog Item No.	Model No.	Description	Pipe Capacity		Weight		Standard Pack
			In.	mm	lb	kg	
40130	40-A	Portable Tristand Yoke Vise	$\frac{1}{8}$ - 2 $\frac{1}{2}$ "	3-60	48 $\frac{1}{2}$	22.0	1
40160	450	Portable Tristand Chain Vise	$\frac{1}{8}$ - 5	3-125	45 $\frac{1}{2}$	20.7	1
40075	20	Bench Yoke Vise	$\frac{1}{8}$ - 1 $\frac{1}{2}$ "	3-30	4	1.8	1
40080	21	Bench Yoke Vise	$\frac{1}{8}$ - 2	3-50	8 $\frac{3}{4}$	4.0	1
40085	22	Bench Yoke Vise	$\frac{1}{8}$ - 2 $\frac{1}{2}$ "	3-60	13	5.9	1
40090	23	Bench Yoke Vise	$\frac{1}{8}$ - 3	3-75	19 $\frac{3}{4}$	9.0	1
40095	24	Bench Yoke Vise	$\frac{1}{8}$ - 3 $\frac{1}{2}$ "	3-90	22 $\frac{1}{4}$	10.0	1
40100	25	Bench Yoke Vise	$\frac{1}{8}$ - 4	3-100	27 $\frac{3}{4}$	12.6	1
40105	26	Bench Yoke Vise	$\frac{1}{8}$ - 5	3-125	40 $\frac{1}{2}$	18.4	1
40110	27	Bench Yoke Vise	$\frac{1}{8}$ - 6	3-150	65	29.8	1
40185	BC210	Top Screw Bench Chain Vise	$\frac{1}{8}$ - 2 $\frac{1}{2}$ "	3-60	7 $\frac{3}{4}$	3.5	1
40195	BC410	Top Screw Bench Chain Vise	$\frac{1}{8}$ - 4	3-100	14 $\frac{3}{4}$	6.7	1
40190	BC210P	Top Screw Bench Chain Vise	$\frac{1}{8}$ - 2 $\frac{1}{2}$ " O.D.*	15-70	7 $\frac{3}{4}$	3.4	1
40200	BC410P	Top Screw Bench Chain Vise	$\frac{1}{8}$ - 4 $\frac{1}{2}$ " O.D.*	15-110	14 $\frac{3}{4}$	6.6	1
40205	BC510	Top Screw Bench Chain Vise	$\frac{1}{8}$ - 5	3-125	15	6.8	1
40210	BC610	Top Screw Bench Chain Vise	$\frac{1}{8}$ - 6	6-150	24 $\frac{1}{2}$	11.1	1
40215	BC810	Top Screw Bench Chain Vise	$\frac{1}{8}$ - 8	15-200	38	17.3	1
40175	BC2A	Bottom Screw Bench Chain Vise	$\frac{1}{8}$ - 2	3-50	5 $\frac{3}{4}$	2.6	1
40180	BC4A	Bottom Screw Bench Chain Vise	$\frac{1}{8}$ - 4	3-100	13	5.9	1
40145	57	Open Side Vise	$\frac{1}{8}$ - 2 $\frac{1}{2}$ "	3-60	13 $\frac{3}{4}$	6.3	1
40150	58	Open Side Vise	$\frac{1}{8}$ - 4 $\frac{1}{2}$ "	3-110	26 $\frac{3}{4}$	12.2	1
40165	560	Top Screw Stand Chain Vise	$\frac{1}{8}$ - 5	3-125	25 $\frac{3}{4}$	11.7	1
40170	640	Top Screw Post Chain Vise	$\frac{1}{8}$ - 5	3-125	23 $\frac{1}{2}$	10.7	1
40115	37	Portable Kit Yoke Vise	$\frac{1}{8}$ - 1 $\frac{1}{2}$ "	3-30	12	5.5	1
40120	38	Portable Kit Yoke Vise	$\frac{1}{8}$ - 2	3-50	12	5.5	1
40125	39	Portable Kit Yoke Vise	$\frac{1}{8}$ - 2 $\frac{1}{2}$ "	3-60	15 $\frac{3}{4}$	7.0	1
40220	461	Straight Pipe Welding Vise	$\frac{1}{8}$ - 8	15-200	15 $\frac{1}{4}$	7.0	1
40225	462	Angle Pipe Welding Vise	$\frac{1}{8}$ - 12	15-300	18 $\frac{3}{4}$	8.4	1
40230	463	Elbow Pipe Welding Vise	2 $\frac{1}{8}$ - 8	60-200	14	6.4	1
40235	464	Flange Pipe Welding Vise	2 $\frac{1}{8}$ - 8	60-200	17 $\frac{1}{4}$	7.8	1

* For Plastic Pipe and Tube

MASTER GENERAL MAINTENANCE SET

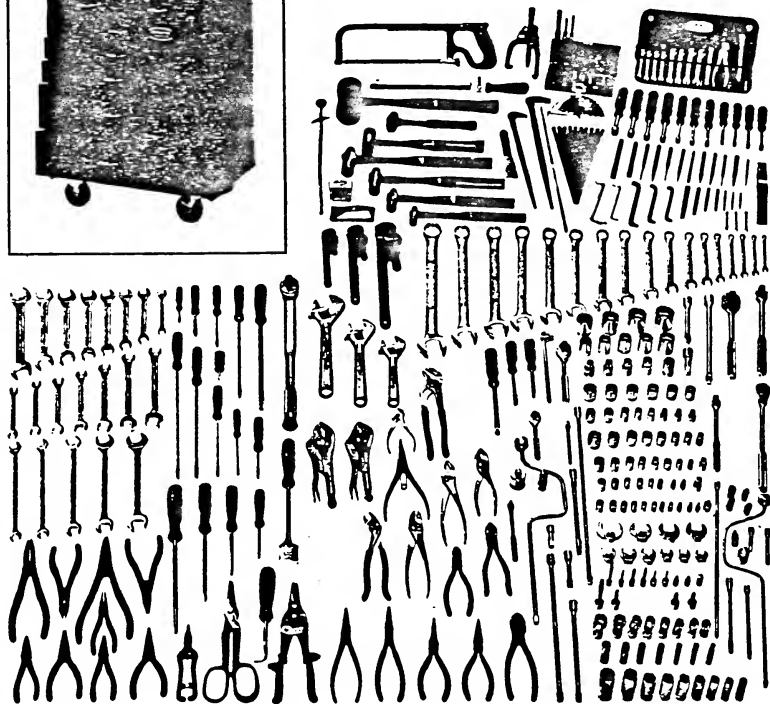


Contains 346 tools designed to perform fast, efficient repair and adjustment procedures on factory machinery and equipment. An ideal set for the industrial master mechanic engaged in general plant maintenance work. Includes socket drive sizes 1/4", 3/8" and 1/2", each with a broad assortment of drive handles, extensions and attachments. Both sockets and flat wrenches cover a complete size range from 1/8" thru 1-1/4". Detailed listing of set contents on page 228.

SET NO. 9107. 346 PC. SET AS SHOWN.

SET NO. 9107XHD. AS SHOWN BUT WITH 9958XHD AND 9936XHD EXTRA HEAVY DUTY ROLLER CABINET AND TOP CHEST.

SET NO. 9106. SET WITHOUT ROLLER CABINET AND TOP CHEST.

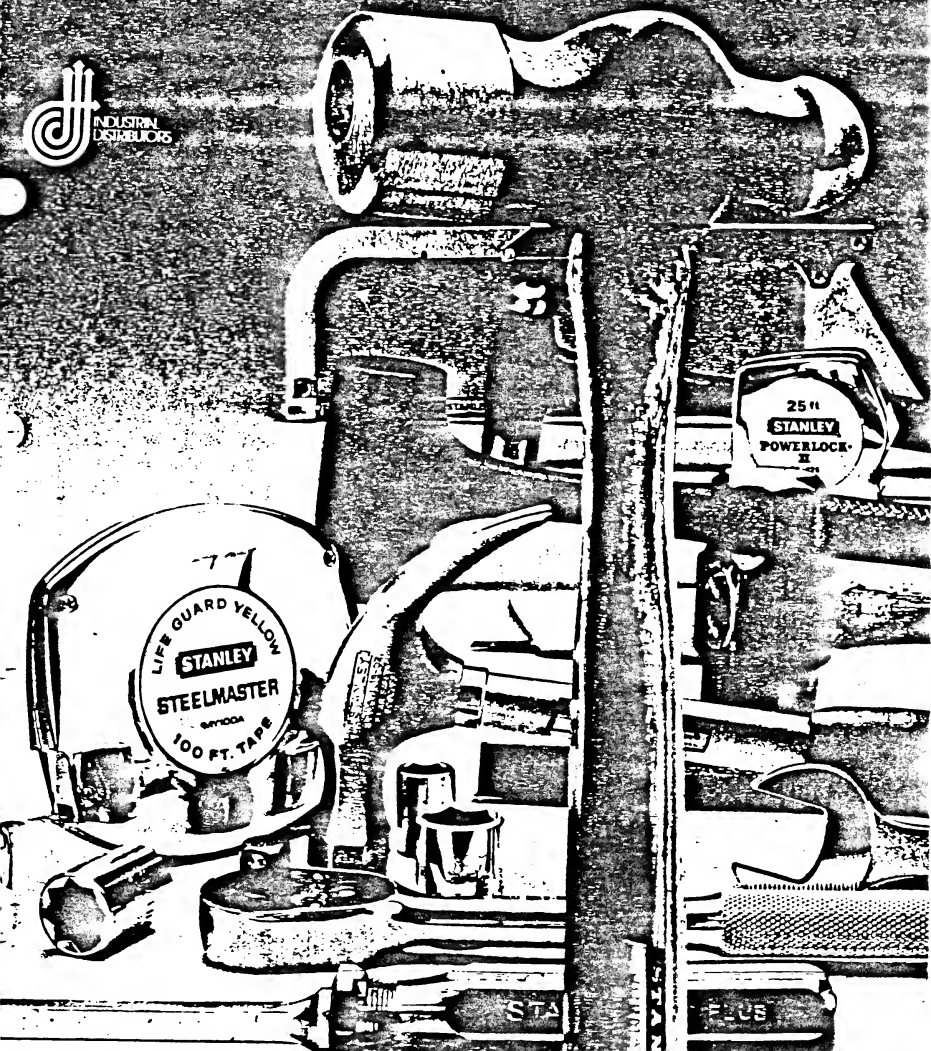


SET NO. 9107. 346 PC. MASTER GENERAL MAINTENANCE SET
SET NO. 9107XHD. 346 PC. MASTER GENERAL MAINTENANCE SET
W/9936XHD CHEST AND 9958XHD CABINET
SET NO. 9106. TOOLS ONLY Contains one of the following:

Tool No.	Description	Tool No.	Description	Tool No.	Description	Tool No.	Description
000AA	Master Group Set	1348	Rubber Mallet	4773	1/4" Dr. Universal Std., 3/4"	5779H	3/4" Dr. Universal Std., 3/4"
34 1/4	Offset Screwdriver	1383	Plastic Tip Hammer	4774	1/4" Dr. Universal Std., 3/4"	5779M	3/4" Dr. Universal Std., 3/4"
34 3/8	Offset Screwdriver	1400G	Brown Hammer, 1 1/2 lb.	4780	1/4" Dr. Speed Handle	5779N	3/4" Dr. Universal Std., 3/4"
34 1/2	Offset Screwdriver	1570	Steel Tape, 3/4" x 12"	4783	1/4" Dr. Sliding T Handle	5779H	3/4" Dr. Universal Std., 3/4"
34 3/4	Offset Screwdriver	2126	Rail Head Bar, 16"	4900A	Hex Bit Set, 10 Pcs.	5779M	3/4" Dr. Universal Std., 3/4"
41 3/4	Center Punch	2130	Rail Head Bar, 18"	4912	3/4" Dr. Crowfoot, 3/4"	5780	3/4" Dr. Universal Std., 3/4"
47 1/4 3/8	Rivet Punch, 3/8"	2304	Carver Pin Puller	4914	3/4" Dr. Crowfoot, 3/4"	5783	1/4" Dr. Sliding T Handle
47 3/4 3/8	Rivet Punch, 3/8"	2327	Flexible Carbon Scraper	4916	3/4" Dr. Crowfoot, 3/4"	5812	1/4" Dr. Socket, 3/4"
47 3/4 1/2	Rivet Punch, 1/2"	2344	Flexible Retracting Tool	4918	3/4" Dr. Crowfoot, 3/4"	5814	1/4" Dr. Socket, 3/4"
50 3/4	Starting Punch, 3/4"	3021	O.E. Wrench, 3/4" x 3/4"	4920	3/4" Dr. Crowfoot, 3/4"	5816	1/4" Dr. Socket, 3/4"
50 3/8	Starting Punch, 3/8"	3026	O.E. Wrench, 3/4" x 3/4"	4922	3/4" Dr. Crowfoot, 3/4"	5818	1/4" Dr. Socket, 3/4"
50 3/16	Starting Punch, 3/16"	3030	O.E. Wrench, 3/4" x 3/4"	4924	3/4" Dr. Crowfoot, 3/4"	5819	1/4" Dr. Socket, 12 Pcs., 3/4"
72 3/4	Cape Chisel, 3/4" Cut	3034	O.E. Wrench, 3/4" x 3/4"	4926	3/4" Dr. Crowfoot, 3/4"	5820	1/4" Dr. Socket, 3/4"
76 3/4	Diamond Point Chisel	3035	O.E. Wrench, 3/4" x 3/4"	4927	3/4" Dr. Crowfoot, 3/4"	5822	1/4" Dr. Socket, 3/4"
84 3/4	Cold Chisel, 3/4" Cut	3038	O.E. Wrench, 3/4" x 3/4"	4932	Hex Key Set, 7 Pcs.	5823	1/4" Dr. Socket, 3/4"
84 3/8	Cold Chisel, 3/8" Cut	3040	O.E. Wrench, 3/4" x 3/4"	4990 M/L	Dr. Hex Bit, 3/4"	5826	1/4" Dr. Socket, 3/4"
84 3/16	Cold Chisel, 3/16" Cut	3043	O.E. Wrench, 3/4" x 3/4"	4990 S/L	Dr. Hex Bit, 3/4"	5828	1/4" Dr. Socket, 3/4"
2040G	Diagonal Cutting Pliers	3200C	Ignition Set, 13 Pcs.	4990 S/L	Dr. Hex Bit, 3/4"	5830	1/4" Dr. Socket, 3/4"
2090G	H.D. Diagonal Pliers	3415	Tapped Wrench, 3/4" x 3/4"	5012H	3/4" Dr. Deep Socket, 3/4"	5832	1/4" Dr. Socket, 1"
2140G	Battery Pliers	3426	Tapped Wrench, 3/4" x 3/4"	5014H	3/4" Dr. Deep Socket, 3/4"	5834	1/4" Dr. Socket, 1 1/4"
2240G	Needle Nose Pliers	3430	Tapped Wrench, 3/4" x 3/4"	5014H	3/4" Dr. Deep Socket, 3/4"	5836	1/4" Dr. Socket, 1 1/4"
2240G	Needle Nose Pliers	3433	Tapped Wrench, 3/4" x 3/4"	5018H	3/4" Dr. Deep Socket, 3/4"	5838	1/4" Dr. Socket, 1 1/4"
2270G	Duckbill Pliers	3440	Tapped Wrench, 3/4" x 3/4"	5020H	3/4" Dr. Deep Socket, 3/4"	5840	1/4" Dr. Socket, 1 1/4"
228	Long Needle Nose	3731	Flare Nut Wrench, 3/4"	5022H	3/4" Dr. Deep Socket, 3/4"	5842	1/4" Dr. Socket, 1 1/4"
261	Ignition Pliers	3733	Flare Nut Wrench, 3/4"	5024H	3/4" Dr. Deep Socket, 3/4"	5844	1/4" Dr. Socket, 1 1/4"
263G	Power-Tech® II Pliers	3735	Flare Nut Wrench, 3/4"	5026H	3/4" Dr. Deep Socket, 3/4"	5846	1/4" Dr. Socket, 1 1/4"
280	Lock Ring Pliers	3734	Flare Nut Wrench, 3/4"	5028H	3/4" Dr. Deep Socket, 3/4"	5848	1/4" Dr. Socket, 1 1/4"
292	Nose Clamp Pliers	3736	Flare Nut Wrench, 3/4"	5208	3/4" Dr. Socket, 12 Pcs., 3/4"	5850	1/4" Dr. Socket, 1 1/4"
2640G	Lineman's Pliers	3738	Flare Nut Wrench, 3/4"	5208B	3/4" Dr. Socket, 12 Pcs., 3/4"	5852	1/4" Dr. Socket, 1 1/4"
276	Slip Joint Pliers, 8"	4235	3-Jaw Puller	5210M	3/4" Dr. Socket, 8 Pcs., 3/4"	5854	1/4" Dr. Socket, 1 1/4"
278	Slip Joint Pliers, 8"	4704	3/4" Dr. Socket, 8 Pcs., 3/4"	5210B	3/4" Dr. Socket, 8 Pcs., 3/4"	5856	1/4" Dr. Socket, 1 1/4"
2918	Lever-Wrench Pliers	4705	3/4" Dr. Socket, 8 Pcs., 3/4"	5212	3/4" Dr. Socket, 12 Pcs., 3/4"	5858	1/4" Dr. Socket, 1 1/4"
2918	Lever-Wrench Pliers	4706	3/4" Dr. Socket, 8 Pcs., 3/4"	5212B	3/4" Dr. Socket, 8 Pcs., 3/4"	5860	1/4" Dr. Socket, 1 1/4"
3035	Aviation Snips, 10"	4707	3/4" Dr. Socket, 8 Pcs., 3/4"	5212B	3/4" Dr. Socket, 8 Pcs., 3/4"	5862	1/4" Dr. Socket, 1 1/4"
304	Miniature Shears	4707 1/2	3/4" Dr. Socket, 12 Pcs., 3/4"	5214	3/4" Dr. Socket, 12 Pcs., 3/4"	5864	1/4" Dr. Socket, 1 1/4"
210	Duckbill Snips, 10"	4708	3/4" Dr. Socket, 12 Pcs., 3/4"	5214H	3/4" Dr. Socket, 8 Pcs., 3/4"	5866	1/4" Dr. Socket, 1 1/4"
348	Low Clearance Hackaw	4708 1/2	3/4" Dr. Deep Socket, 12 Pcs., 3/4"	5214H	3/4" Dr. Socket, 8 Pcs., 3/4"	5868	1/4" Dr. Socket, 1 1/4"
232	Adjustable Hackaw	4708 1/2	3/4" Dr. Deep Socket, 12 Pcs., 3/4"	5216	3/4" Dr. Socket, 12 Pcs., 3/4"	5870	1/4" Dr. Socket, 1 1/4"
290	Retaining Ring Pliers	4708 1/2	3/4" Dr. Deep Socket, 12 Pcs., 3/4"	5216H	3/4" Dr. Socket, 8 Pcs., 3/4"	5872	1/4" Dr. Socket, 1 1/4"
291	Retaining Ring Pliers	4709	3/4" Dr. Socket, 8 Pcs., 3/4"	5216H	3/4" Dr. Socket, 8 Pcs., 3/4"	5874	1/4" Dr. Socket, 1 1/4"
292	Retaining Ring Pliers	4709 1/2	3/4" Dr. Deep Socket, 8 Pcs., 3/4"	5218	3/4" Dr. Socket, 8 Pcs., 3/4"	5876	1/4" Dr. Socket, 1 1/4"
293	Retaining Ring Pliers	4709 1/2	3/4" Dr. Deep Socket, 8 Pcs., 3/4"	5218H	3/4" Dr. Socket, 12 Pcs., 3/4"	5878	1/4" Dr. Socket, 1 1/4"
294	Retaining Ring Pliers	4710	3/4" Dr. Socket, 8 Pcs., 3/4"	5220	3/4" Dr. Socket, 12 Pcs., 3/4"	5880	1/4" Dr. Socket, 1 1/4"
295	Retaining Ring Pliers	4710 1/2	3/4" Dr. Deep Socket, 12 Pcs., 3/4"	5220H	3/4" Dr. Socket, 8 Pcs., 3/4"	5882	1/4" Dr. Socket, 1 1/4"
297	Retaining Ring Pliers	4710 1/2	3/4" Dr. Deep Socket, 12 Pcs., 3/4"	5222	3/4" Dr. Socket, 12 Pcs., 3/4"	5884	1/4" Dr. Socket, 1 1/4"
298	Retaining Ring Pliers	4710 1/2	3/4" Dr. Deep Socket, 12 Pcs., 3/4"	5222H	3/4" Dr. Socket, 12 Pcs., 3/4"	5886	1/4" Dr. Socket, 1 1/4"
495	Pony Knife	4711	3/4" Dr. Socket, 8 Pcs., 3/4"	5224	3/4" Dr. Socket, 12 Pcs., 3/4"	5888	1/4" Dr. Socket, 1 1/4"
706	Adjustable Wrench, 8"	4711 1/2	3/4" Dr. Deep Socket, 12 Pcs., 3/4"	5224H	3/4" Dr. Socket, 8 Pcs., 3/4"	5890	1/4" Dr. Socket, 1 1/4"
710	Adjustable Wrench, 10"	4712	3/4" Dr. Socket, 12 Pcs., 3/4"	5226	3/4" Dr. Socket, 12 Pcs., 3/4"	5892	1/4" Dr. Socket, 1 1/4"
712	Adjustable Wrench, 12"	4712 1/2	3/4" Dr. Deep Socket, 12 Pcs., 3/4"	5226H	3/4" Dr. Socket, 8 Pcs., 3/4"	5894	1/4" Dr. Socket, 1 1/4"
80HDD-RGD	Pipe Wrench, 8"	4712 1/2	3/4" Dr. Deep Socket, 12 Pcs., 3/4"	5240	3/4" Dr. Socket, 8 Pcs., 3/4"	5896	1/4" Dr. Socket, 1 1/4"
80HDD-RGD	Pipe Wrench, 14"	4713	3/4" Dr. Socket, 8 Pcs., 3/4"	5242	3/4" Dr. Socket, 8 Pcs., 3/4"	5898	1/4" Dr. Socket, 1 1/4"
1204E	Combination Wrench, 3/4"	4714	3/4" Dr. Socket, 8 Pcs., 3/4"	5242	3/4" Dr. Socket, 8 Pcs., 3/4"	5900	1/4" Dr. Socket, 1 1/4"
1205E	Combination Wrench, 3/4"	4714 1/2	3/4" Dr. Deep Socket, 12 Pcs., 3/4"	5244	3/4" Dr. Socket, 8 Pcs., 3/4"	5902	1/4" Dr. Socket, 1 1/4"
1206E	Combination Wrench, 3/4"	4716	3/4" Dr. Socket, 12 Pcs., 3/4"	5246	3/4" Dr. Socket, 8 Pcs., 3/4"	5904	1/4" Dr. Socket, 1 1/4"
1208	Combination Wrench, 3/4"	4716 1/2	3/4" Dr. Deep Socket, 12 Pcs., 3/4"	5247	3/4" Dr. Socket, 8 Pcs., 3/4"	5906	1/4" Dr. Socket, 1 1/4"
1210	Combination Wrench, 3/4"	4717	3/4" Dr. Socket, 12 Pcs., 3/4"	5249	3/4" Dr. Socket, 8 Pcs., 3/4"	5908	1/4" Dr. Socket, 1 1/4"
1212	Combination Wrench, 3/4"	4717 1/2	3/4" Dr. Deep Socket, 12 Pcs., 3/4"	5251	3/4" Dr. Socket, 8 Pcs., 3/4"	5910	1/4" Dr. Socket, 1 1/4"
1214	Combination Wrench, 3/4"	4737	3/4" Dr. Socket, 12 Pcs., 3/4"	5253	3/4" Dr. Socket, 8 Pcs., 3/4"	5912	1/4" Dr. Socket, 1 1/4"
1216	Combination Wrench, 3/4"	4737 1/2	3/4" Dr. Deep Socket, 12 Pcs., 3/4"	5253	3/4" Dr. Socket, 8 Pcs., 3/4"	5914	1/4" Dr. Socket, 1 1/4"
1218	Combination Wrench, 3/4"	4738	3/4" Dr. Socket, 12 Pcs., 3/4"	5253	3/4" Dr. Socket, 8 Pcs., 3/4"	5916	1/4" Dr. Socket, 1 1/4"
1220	Combination Wrench, 3/4"	4738 1/2	3/4" Dr. Deep Socket, 12 Pcs., 3/4"	5253	3/4" Dr. Socket, 8 Pcs., 3/4"	5918	1/4" Dr. Socket, 1 1/4"
1222	Combination Wrench, 3/4"	4740	3/4" Dr. Socket, 12 Pcs., 3/4"	5253	3/4" Dr. Socket, 8 Pcs., 3/4"	5920	1/4" Dr. Socket, 1 1/4"
1224	Combination Wrench, 3/4"	4740 1/2	3/4" Dr. Deep Socket, 12 Pcs., 3/4"	5253	3/4" Dr. Socket, 8 Pcs., 3/4"	5922	1/4" Dr. Socket, 1 1/4"
1226	Combination Wrench, 3/4"	4742	3/4" Dr. Socket, 12 Pcs., 3/4"	5253	3/4" Dr. Socket, 8 Pcs., 3/4"	5924	1/4" Dr. Socket, 1 1/4"
1228	Combination Wrench, 3/4"	4742 1/2	3/4" Dr. Deep Socket, 12 Pcs., 3/4"	5253	3/4" Dr. Socket, 8 Pcs., 3/4"	5926	1/4" Dr. Socket, 1 1/4"
1230	Combination Wrench, 3/4"	4744	3/4" Dr. Socket, 12 Pcs., 3/4"	5253	3/4" Dr. Socket, 8 Pcs., 3/4"	5928	1/4" Dr. Socket, 1 1/4"
1232	Combination Wrench, 3/4"	4744 1/2	3/4" Dr. Deep Socket, 12 Pcs., 3/4"	5253	3/4" Dr. Socket, 8 Pcs., 3/4"	5930	1/4" Dr. Socket, 1 1/4"
1234	Combination Wrench, 3/4"	4746	3/4" Dr. Socket, 12 Pcs., 3/4"	5253	3/4" Dr. Socket, 8 Pcs., 3/4"	5932	1/4" Dr. Socket, 1 1/4"
1236	Combination Wrench, 3/4"	4746 1/2	3/4" Dr. Deep Socket, 12 Pcs., 3/4"	5253	3/4" Dr. Socket, 8 Pcs., 3/4"	5934	1/4" Dr. Socket, 1 1/4"
1240	Combination Wrench, 3/4"	4748	3/4" Dr. Socket, 12 Pcs., 3/4"	5253	3/4" Dr. Socket, 8 Pcs., 3/4"	5936	1/4" Dr. Socket, 1 1/4"
1242	Combination Wrench, 3/4"	4748 1/2	3/4" Dr. Deep Socket, 12 Pcs., 3/4"	5253	3/4" Dr. Socket, 8 Pcs., 3/4"	5938	1/4" Dr. Socket, 1 1/4"
1244	Combination Wrench, 3/4"	4750	3/4" Dr. Socket, 12 Pcs., 3/4"	5253	3/4" Dr. Socket, 8 Pcs., 3/4"	5940	1/4" Dr. Socket, 1 1/4"
1246	Combination Wrench, 3/4"	4750 1/2	3/4" Dr. Deep Socket, 12 Pcs., 3/4"	5253	3/4" Dr. Socket, 8 Pcs., 3/4"	5942	1/4" Dr. Socket, 1 1/4"
1248	Combination Wrench, 3/4"	4752	3/4" Dr. Socket, 12 Pcs., 3/4"	5253	3/4" Dr. Socket, 8 Pcs., 3/4"	5944	1/4" Dr. Socket, 1 1/4"
1250	Combination Wrench, 3/4"	4752 1/2	3/4" Dr. Deep Socket, 12 Pcs., 3/4"	5253	3/4" Dr. Socket, 8 Pcs., 3/4"	5946	1/4" Dr. Socket, 1 1/4"
1252	Combination Wrench, 3/4"	4754	3/4" Dr. Socket, 12 Pcs., 3/4"	5253	3/4" Dr. Socket, 8 Pcs., 3/4"	5948	1/4" Dr. Socket, 1 1/4"
1254	Combination Wrench, 3/4"	4754 1/2	3/4" Dr. Deep Socket, 12 Pcs., 3/4"	5253	3/4" Dr. Socket, 8 Pcs., 3/4"	5950	1/4" Dr. Socket, 1 1/4"
1256	Combination Wrench, 3/4"	4756	3/4" Dr. Socket, 12 Pcs., 3/4"	5253	3/4" Dr. Socket, 8 Pcs., 3/4"	5952	1/4" Dr. Socket, 1 1/4"
1258	Combination Wrench, 3/4"	4756 1/2	3/4" Dr. Deep Socket, 12 Pcs., 3/4"	5253	3/4" Dr. Socket, 8 Pcs., 3/4"	5954	1/4" Dr. Socket, 1 1/4"
1260	Combination Wrench, 3/4"	4758	3/4" Dr. Socket, 12 Pcs., 3/4"	5253	3/4" Dr. Socket, 8 Pcs., 3/4"	5956	1/4" Dr. Socket, 1 1/4"
1262	Combination Wrench, 3/4"	4758 1/2	3/4" Dr. Deep Socket, 12 Pcs., 3/4"	5253	3/4" Dr. Socket, 8 Pcs., 3/4"	5958	1/4" Dr. Socket, 1 1/4"
1264	Combination Wrench, 3/4"	4760	3/4" Dr. Socket, 12 Pcs., 3/4"	5253	3/4" Dr. Socket, 8 Pcs., 3/4"	5960	1/4" Dr. Socket, 1 1/4"
1266	Combination Wrench, 3/4"	4760 1/2	3/4" Dr. Deep Socket, 12 Pcs., 3/4"	5253	3/4" Dr. Socket, 8 Pcs., 3/4"	5962	1/4" Dr. Socket, 1 1/4"
1268	Combination Wrench, 3/4"	4762	3/4" Dr. Socket, 12 Pcs., 3/4"	5253	3/4" Dr. Socket, 8 Pcs., 3/4"	5964	1/4" Dr. Socket, 1 1/4"
1270	Combination Wrench, 3/4"	4762 1/2	3/4" Dr. Deep Socket, 12 Pcs., 3/4"	5253	3/4" Dr. Socket, 8 Pcs., 3/4"	5966	1/4" Dr. Socket, 1 1/4"
1272	Combination Wrench, 3/4"	4764	3/4" Dr. Socket, 12 Pcs., 3/4"	5253	3/4" Dr. Socket, 8 Pcs., 3/4"	5968	1/4" Dr. Socket, 1 1/4"
1274	Combination Wrench, 3/4"	4764 1/2	3/4" Dr. Deep Socket, 12 Pcs., 3/4"	5253	3/4" Dr. Socket, 8 Pcs., 3/4"	5970	1/4" Dr. Socket, 1 1/4"
1276	Combination Wrench, 3/4"	4766	3/4" Dr. Socket, 12 Pcs., 3/4"	5253	3/4" Dr. Socket, 8 Pcs., 3/4"	5972	1/4" Dr. Socket, 1 1/4"
1278	Combination Wrench, 3/4"	4766 1/2	3/4" Dr. Deep Socket, 12 Pcs., 3/4"	5253	3/4" Dr. Socket, 8 Pcs., 3/4"	5974	1/4" Dr. Socket, 1 1/4"
1280	Combination Wrench, 3/4"	4768	3/4" Dr. Socket, 12 Pcs., 3/4"	5253	3/4" Dr. Socket, 8 Pcs., 3/4"	5976	1/4" Dr. Socket, 1 1/4"
1282	Combination Wrench, 3/4"	4768 1/2	3/4" Dr. Deep Socket, 12 Pcs., 3/4"	5253	3/4" Dr. Socket, 8 Pcs., 3/4"	5978	1/4" Dr. Socket, 1 1/4"
1284	Combination Wrench, 3/4"	4770	3/4" Dr. Socket, 12 Pcs., 3/4"	5253	3/4" Dr. Socket, 8 Pcs., 3/4"	5980	1/4" Dr. Socket, 1 1/4"
1286	Combination Wrench, 3/4"	4770 1/2	3/4" Dr. Deep Socket, 12 Pcs., 3/4"	5253	3/4" Dr. Socket, 8 Pcs., 3/4"	5982	1/4" Dr. Socket, 1 1/4"
1288	Combination Wrench, 3/4"	4772	3/4" Dr. Socket, 12 Pcs., 3/4"	5253	3/4" Dr. Socket, 8 Pcs., 3/4"	5984	1/4" Dr. Socket, 1 1/4"
1290	Combination Wrench, 3/4"	4772 1/2	3/4" Dr. Deep Socket, 12 Pcs., 3/4"	5253	3/4" Dr. Socket, 8 Pcs., 3/4"	5986	1/4" Dr. Socket, 1 1/4"
1292	Combination Wrench, 3/4"	4774	3/4" Dr. Socket, 12 Pcs., 3/4"	5253	3/4" Dr. Socket, 8 Pcs., 3/4"	5988	1/4" Dr. Socket, 1 1/4"
1294	Combination Wrench, 3/4"	4774 1/2	3/4" Dr. Deep Socket, 12 Pcs., 3/4"	5253	3/4" Dr. Socket, 8 Pcs., 3/4"	5990	1/4" Dr. Socket, 1 1/4"
1296	Combination Wrench, 3/4"	4776	3/4" Dr. Socket, 12 Pcs., 3/4"	5253	3/4" Dr. Socket, 8 Pcs., 3/4"	5992	1/4" Dr. Socket, 1 1/4"
1298	Combination Wrench, 3/4"	4776 1/2	3/4" Dr. Deep Socket, 12 Pcs., 3/4"	5253	3/4" Dr. Socket, 8 Pcs., 3/4"	5994	1/4" Dr. Socket, 1 1/4"
1300	Combination Wrench, 3/4"	4778	3/4" Dr. Socket, 12 Pcs., 3/4"	5253	3/4" Dr. Socket, 8 Pcs., 3/4"	5996	1/4" Dr. Socket, 1 1/4"
1302	Combination Wrench, 3/4"	4778 1/2	3/4" Dr. Deep Socket, 12 Pcs., 3/4"	5253	3/4" Dr. Socket, 8 Pcs., 3/4"	5998	1/4" Dr. Socket, 1 1/4"
1304	Combination Wrench, 3/4"	4780	3/4" Dr. Socket, 12 Pcs., 3/4"	5253	3/4" Dr. Socket, 8 Pcs., 3/4"	6000	1/4" Dr. Socket, 1 1/4"
1306	Combination						

STANLEY TOOLS

LEADING FROM STRENGTH, TO SERVE INDUSTRY 1982



Product No.	Catalog No.	Item Description	Pg.	Product No.	Catalog No.	Item Description	Pg.	Product No.	Catalog No.	Item Description	Pg.
Nut Drivers (continued)				Screw Drivers (continued)				Screw Drivers (continued)			
61-137	66-501	Eng N Dvr Set-Pouch	117	65-603	65-603C	Jobmaster® -3 pt.	110	67-688	66-688	Jobmaster® Cab -8"	116
61-201	61-201	4mm Nut Driver	117	65-605	65-605C	Jobmaster® Stry -2 pt.	110	67-690	66-699	Job Chain Scr Dr.	116
61-202	61-202	4.5mm Nut Driver	117	66-003	20-3"	Hurwood® -3"	116				
61-203	61-203	5mm Nut Driver	117	66-004	20-4"	Hurwood® -4"	116				
61-204	61-204	5.5mm Nut Driver	117	66-006	20-6"	Hurwood® -6"	116				
61-205	61-205	6mm Nut Driver	117	66-008	20-8"	Hurwood® -8"	116				
61-206	61-206	7mm Nut Driver	117	66-010	20-10"	Hurwood® -10"	116				
61-207	61-207	8mm Nut Driver	117	66-023	26-1/4"	Tang Sc Dr Bit-1/16"	119				
61-208	61-208	9mm Nut Driver	117	66-024	26-1/2"	Tang Sc Dr Bit-1/8"	119				
61-209	61-209	10mm Nut Driver	117	66-025	26-3/4"	Tang Sc Dr Bit-1/4"	119				
61-210	61-210	11mm Nut Driver	117	66-026	26-1"	Tang Sc Dr Bit-3/8"	119				
61-211	61-211	13mm Nut Driver	117	66-028	26-1 1/2"	Tang Sc Dr Bit-1/2"	119				
61-220	61-220	Met. Nut Dvr. Set-Tray	117	66-033	668	Offset 1/32" & 3/16"	120				
				66-034	669	Offset 1/16" & 9/32"	120				
				66-035	670S	Offset 5/16" & 11/32"	120				
				66-036	671	Offset 3/8" & 13/32"	120				
				66-101	1010	100 Plus® Pocket-2"	106				
				66-102	66-102	100 Plus® Pocket-3"	106				
				66-103	66-103	100 Plus® Pocket-4"	106				
				66-110	1016-10"	Lt Bl./Cab Tip-10"	108				
				66-112	1016-2"	Lt Bl./Cab Tip-2"	108				
				66-113	1016-3"	Lt Bl./Cab Tip-3"	108				
				66-114	1016-4"	Lt Bl./Cab Tip-4"	108				
				66-115	1016-6"	Lt Bl./Cab Tip-6"	108				
				66-117	1017	Instrument	108				
				66-118	1016-8"	Lt Bl./Cab Tip-8"	108				
				66-140	1014	Spark Detecting	108				
				66-160	1006-10"	100 Plus® Stry-10"	105				
				66-161	1005	100 Plus® Stry-5"	105				
				66-162	1006-12"	100 Plus® Stry-12"	105				
				66-163	1006-3"	100 Plus® Stry-3"	105				
				66-164	1006-4"	100 Plus® Stry-4"	105				
				66-165	1013	100 Plus® Stry-10"	105				
				66-166	1006-8"	100 Plus® Stry-8"	105				
				66-168	1006-8"	100 Plus® Stry-8"	105				
				66-170	1007-10"	100 Plus® Stry-10"	105				
				66-172	1007-12"	100 Plus® Stry-12"	105				
				66-174	1007-4"	100 Plus® Stry-4"	105				
				66-176	1007-6"	100 Plus® Stry-6"	105				
				66-178	1007-8"	100 Plus® Stry-8"	105				
				66-180	1008-10"	100 Plus® Stry-10"	105				
				66-182	1008-12"	100 Plus® Stry-12"	105				
				66-183	1008-3"	100 Plus® Stry-3"	105				
				66-186	1008-8"	100 Plus® Stry-8"	105				
				66-188	1008-8"	100 Plus® Stry-8"	105				
				66-205	66-205	Wkmas® -5 pc Set	112				
				66-214	66-214	Wkmas® -4 pc Set	112				
				66-401	66-401	4-Way Workmaster®	113				
				66-453	4595-3"	Yankee® -3"	116				
				66-455	4595-6"	Yankee® -6"	116				
				66-456	4595-8"	Yankee® -8"	116				
				66-693	66-693	Insulated-3"	110				
				66-694	66-694	Insulated-4"	110				
				66-696	66-696	Insulated-6"	110				
				66-698	66-698	Insulated-8"	110				
				66-801	66-801	Wkmas® 5 pc Mag. Te	107				
				67-130	415C-10"	Speed-Dr-Grp-10"	113				
				67-132	415C-12"	Speed-Dr-Grp-12"	113				
				67-134	415C-4"	Speed-Dr-Grp-4"	107				
				67-136	415C-6"	Speed-Dr-Grp-6"	107				
				67-138	415C-8"	Speed-Dr-Grp-8"	107				
				67-144	417C-6"	Speed-Dr-Grp-6"	107				
				67-146	417C-8"	Speed-Dr-Grp-8"	107				
				67-261	66-181	Wkmas® Stry Sdy	111				
				67-263	67-263	Wkmas® Stry Sdy	111				
				67-264	66-204	Wkmas® Stry Sdy	111				
				67-266	66-206	Wkmas® Stry Sdy	111				
				67-268	66-208	Wkmas® Stry Sdy	111				
				67-274	66-224	Wkmas® Square-4"	111				
				67-276	66-226	Wkmas® Square-6"	111				
				67-278	66-228	Wkmas® Square-8"	111				
				67-283	66-193	Workmaster® Cab-3"	111				
				67-285	66-195	Workmaster® Cab-5"	111				
				67-286	66-196	Workmaster® Cab-6"	111				
				67-288	66-198	Workmaster® Cab-8"	111				
				67-661	66-661	Jobmaster® Stry Sdy	110				
				67-663	66-663	Jobmaster® Stry Sdy	110				
				67-664	66-664	Jobmaster® Stry Sdy	110				
				67-666	66-666	Jobmaster® Stry Sdy	110				
				67-668	66-668	Jobmaster® Stry Sdy	110				
				67-674	66-674	Jobmaster® Stry Sdy	110				
				67-676	66-676	Jobmaster® Stry Sdy	110				
				67-678	66-678	Jobmaster® Stry Sdy	110				
				67-683	66-683	Jobmaster® Stry Sdy	110				
				67-686	66-686	Jobmaster® Stry Sdy	110				
				67-688	66-688	Jobmaster® Stry Sdy	110				
				67-690	66-690	Jobmaster® Stry Sdy	110				
				67-692	66-692	Jobmaster® Stry Sdy	110				
				67-694	66-694	Jobmaster® Stry Sdy	110				
				67-696	66-696	Jobmaster® Stry Sdy	110				
				67-698	66-698	Jobmaster® Stry Sdy	110				
				67-699	66-699	Jobmaster® Stry Sdy	110				
				67-700	66-700	Jobmaster® Stry Sdy	110				
				67-701	66-701	Jobmaster® Stry Sdy	110				
				67-702	66-702	Jobmaster® Stry Sdy	110				
				67-703	66-703	Jobmaster® Stry Sdy	110				
				67-704	66-704	Jobmaster® Stry Sdy	110				
				67-705	66-705	Jobmaster® Stry Sdy	110				
				67-706	66-706	Jobmaster® Stry Sdy	110				
				67-707	66-707	Jobmaster® Stry Sdy	110				
				67-708	66-708	Jobmaster® Stry Sdy	110				
				67-709	66-709	Jobmaster® Stry Sdy	110				
				67-710	66-710	Jobmaster® Stry Sdy	110				
				67-711	66-711	Jobmaster® Stry Sdy	110				
				67-712	66-712	Jobmaster® Stry Sdy	110				
				67-713	66-713	Jobmaster® Stry Sdy	110				
				67-714	66-714	Jobmaster® Stry Sdy	110				
				67-715	66-715	Jobmaster® Stry Sdy	110				
				67-716	66-716	Jobmaster® Stry Sdy	110				
				67-717	66-717	Jobmaster® Stry Sdy	110				
				67-718	66-718	Jobmaster® Stry Sdy	110				
				67-719	66-719	Jobmaster® Stry Sdy	110				
				67-720	66-720	Jobmaster® Stry Sdy	110				
				67-721	66-721	Jobmaster® Stry Sdy	110				
				67-722	66-722	Jobmaster® Stry Sdy	110				
				67-723	66-723	Jobmaster® Stry Sdy	110				
				67-724	66-724	Jobmaster® Stry Sdy	110				
				67-725	66-725	Jobmaster® Stry Sdy	110				
				67-726	66-726	Jobmaster® Stry Sdy	110				
				67-727	66-727	Jobmaster® Stry Sdy	110				
				67-728	66-728	Jobmaster® Stry Sdy	110				
				67-729	66-729	Jobmaster® Stry Sdy	110				
				67-730	66-730	Jobmaster® Stry Sdy	110				
				67-731	66-731	Jobmaster® Stry Sdy	110				
				67-732	66-732	Jobmaster® Stry Sdy	110				
				67-733	66-733	Jobmaster® Stry Sdy	110				
				67-734	66-734	Jobmaster® Stry Sdy	110				
				67-735	66-735	Jobmaster® Stry Sdy	110				
				67-736	66-736	Jobmaster® Stry Sdy	110				
				67-737	66-737	Jobmaster® Stry Sdy	110				
				67-738	66-738	Jobmaster® Stry Sdy	110				
				67-739	66-739	Jobmaster® Stry Sdy	110				
				67-740	66-740	Jobmaster® Stry Sdy	110				
				67-741	66-741	Jobmaster® Stry Sdy	110				
				67-742	66-742	Jobmaster® Stry Sdy	110				
				67-743	66-743	Jobmaster® Stry Sdy	110				
				67-744	66-744	Jobmaster® Stry Sdy	110				
				67-745	66-745	Jobmaster® Stry Sdy	110				
				67-746	66-746	Jobmaster® Stry Sdy	110				
				67-747	66-747	Jobmaster® Stry Sdy	110				
				67-748	66-748	Jobmaster® Stry Sdy	110				
				67-749	66-749	Jobmaster® Stry Sdy	110				
				67-750	66-750	Jobmaster® Stry Sdy	110				
				67-751	66-751	Jobmaster® Stry Sdy	110				
				67-752	66-752	Jobmaster® Stry Sdy	110				
				67-753	66-753	Jobmaster® Stry Sdy	110				
				67-754	6						

Product No.	Catalog No.	Item Description	Pg.	Product No.	Catalog No.	Item Description	Pg.	Product No.	Catalog No.	Item Description	Pg.
Nail Hammers (continued)				Heavy Striking Hammers				Soft Face Hammers (continued)			
51-416	H111½	Wd Crvd. Cl.-16 oz.	87	56-411	861H	Blacksmith Hmr.-2 lb.	90	57-574	57-574	Grn Tough/2" hd.	98
51-516	H121½	Wd Rip Claw-16 oz.	87	56-412	861H	Blacksmith Hmr.-2½ lb.	90	57-575	57-575	Grn Tough/2½" hd.	98
51-613	213	Wd Crvd Cl.-11-7/16 oz.	87	56-413	861H	Blacksmith Hmr.-3 lb.	90	57-582	592A	Plastic H Tip for 592	91
51-618	211½	Wd Crvd Cl.-16 oz.	87	56-532	56-532	Compo Cast 32 oz. 10½"	97	57-583	593A	Plastic H Tip for 593	91
51-718	211½A	Wd Crvd Cl.-NI.-16 oz.	87					57-584	594A	Plastic H Tip for 594	91
4-830	FR22C	Wd Cr Fr R Cl.-22 oz.	87	56-540	56-540	Compo Cast 40 oz 16¼"	97	57-585	595A	Plastic H Tip for 595	91
1-822	FR22C	Wd Cr Fr R Cl.-22 oz.	87	56-702	780H	Hand Ori Hmr.-2 lb.	91	57-586	5950A	Plastic H Tip for 5950	91
FR28	FR28	Wd Cr Fr R Cl.-28 oz.	87	56-702	780H	Hand Ori Hmr.-2 lb.	91	57-589	593	1½ oz 10½" Handle	91
51-825	FR28C	Wd Cr Fr R Cl.-28 oz.	87	56-704	780H	Hand Ori Hmr.-4 lb.	91	57-593	593	4 oz 12½" Handle	91
51-840	608	Lineman's-32 oz.	88					57-594	594	8 oz 12" Handle	91
51-900	HW2	Prof. Hmr Holster	92	56-802	850H	Sledge-2½ lb.	91	57-595	595	16 oz 13¼" Handle	91
51-901	H0	Hammer Holster	92	56-803	850H	Sledge-3 lb.	91	57-596	5950	32 oz 14½" Handle	91
52-013	F2	Fibgl Rip Cl.-13 oz.	87	56-804	850H	Sledge-4 lb.	91	57-800	57-800	Crm Med Hard 1"	98
52-016	F1½	Fibgl Crvd Cl.-16 oz.	87	56-806	850H	Sledge-6 lb.	91	57-802	57-802	Crm Med Hard 1 3/16"	98
52-020	F1	Fibgl Crvd Cl.-20 oz.	87	56-808	850H	Sledge-8 lb.	91	57-803	57-803	Crm Med Hard 1 1/4"	98
52-116	F1½A	Fibgl Rip Claw-16 oz.	87	56-810	850H	Sledge-10 lb.	91	57-808	57-808	Crm Med Hard 1 3/8"	98
52-120	F1A	Fibgl Rip Claw-20 oz.	87	56-812	850H	Sledge-12 lb.	91	57-811	811	Crm Med Hard 1 1/2"	98
52-222	52-222	Fibgl Pl Fr R Cl.-32 oz.	88	56-816	850H	Sledge-16 lb.	91	57-814	814	Crm Med Hard 1 11/16"	98
52-322	52-322	Fibgl Crvd Cl.-22 oz.	88	56-973	975-3	Wedge-3 lb.	94	57-819	819	Crm Med Hard 2"	98
52-416	52-416	Fibgl Crvd Cl.-16 oz.	87	56-974	975-4	Wedge-4 lb.	94	57-821	821	Crm Med Hard 2 1/2"	98
52-516	52-516	Fibgl Rip Cl.-16 oz.	87	56-975	975-5	Wedge-5 lb.	94	57-823	823	Crm Med Hard 3"	98
Mechanics and Specialty Hammers				Hammer Handles				57-830	57-830	Red Med. 1"	98
53-170	1070H	Scaling-16 oz.	89	56-673	RH20	Hdle / FR22L,FR22LC	92	57-832	832	Red Med. 1 3/16"	98
53-231	231	Riveting-7 oz.	89	56-674	RH28	Hdle / FR28 FR28C	92	57-833	833	Red Med. 1 1/4"	98
53-240	SB24	Bricklayer-24 oz.	89	56-676	25-676	Hdle / 16 oz N Ham.	92	57-838	57-838	Red Med. 1 3/8"	98
53-252	F2	Prosp Pick-24 oz.	89	56-678	25-678	Hdle / 12 oz N Ham.	92	57-841	841	Red Med. 1 1/8"	98
53-304	H304	Magnetic Tack-5 oz.	89	56-679	25-679	Hdle / 16 oz N Ham.	92	57-844	844	Red Med. 1 1/16"	98
53-431	431A	Bricklayer-18 oz.	89	56-680	25-680	Hdle / 16 oz N Ham.	92	57-851	851	Red Med. 2 1/2"	98
53-435	431½A	Bricklayer-12 oz.	89	56-681	25-681	Hdle / 6 oz B P H.	91	57-853	853	Red Med. 3"	98
53-453	453	Tinners Set-16 oz.	88	56-682	25-682	Hdle / 6.8 12 oz B P H.	91	57-856	856	Green Tough 1"	98
53-462	462	Tinners Rivet-12 oz.	88	56-683	25-683	Hdle / 16.0 20 oz B P H.	91	57-857	857	Green Tough 1 1/8"	98
53-463	463	Tinners Rivet-16 oz.	88	56-684	25-684	Hdle / 24 oz B P H.	91	57-858	858	Green Tough 1 3/4"	98
53-601	601	Magnetic Tack-5 oz.	89	56-685	25-685	Hdle / 18.24 oz Brk H.	92	57-871	871	Green Tough 1 1/16"	98
53-602	602	Magnetic Uphol-7 oz.	89	56-686	25-686	Hdle Mail Hatchet	92	57-879	879	Green Tough 2"	98
54-002	2918	Wood Ball Pein-2 oz.	90	56-687	25-687	Hdle, Camp Axe	92	57-881	881	Green Tough 2 1/2"	98
54-004	3068	Wood Ball Pein-4 oz.	90	56-690	RH608	Hmr. Hdle for 40,608	92	57-883	883	Green Tough 3"	98
54-006	3078	Wood Ball Pein-6 oz.	90								
54-012	3098	Wood Ball Pein-12 oz.	90	56-691	RH231	Hmr Hdle for 231, 232,166,451,461	92	Nail Sets			
54-016	3108	Wood Ball Pein-16 oz.	90	56-692	RH233	Hmr Hdle / 233,452,462	92	58-010	58-010	Self Ctr. Nail Sets	99
54-020	3118	Wood Ball Pein-20 oz.	90	56-693	RH463	Hmr Hdle for 463,464, 453,1070H	92	58-011	58-011	Self Ctr. Nail Sets	99
54-024	3128	Wood Ball Pein-24 oz.	90					58-013	58-013	Self Ctr. Sc H. P.	99
54-032	3148	Wood Ball Pein-32 oz.	90	56-696	RH780	Hmr Hdle for 401,402, 403,392,404,405	92	58-111	58-111	Sc Hd.-4" N Set 1/32"	99
54-040	3168	Wood Ball Pein-40 oz.	90	56-697	RH431	Hmr Hdle / 7.3 4 lbs.	92	58-112	58-112	Sc Hd.-4" N Set 1/16"	99
54-048	3188	Wood Ball Pein-48 oz.	90	56-698	RH333	Sledge Handle	92	58-113	58-113	Sc Hd.-4" N Set 1/8"	99
54-108	H0308	Wood Ball Pein-8 oz.	90	56-699	RH335	Sledge Handle	92	58-115	58-115	Sc Hd.-4" N Set 5/32"	99
54-112	H0308	Wood Ball Pein-12 oz.	90								
54-118	H0310	Wood Ball Pein-16 oz.	90	56-700	56-700	Maul Handle	92	58-120	58-120	Sc Hd. Ctr Punch	99
54-120	H0312	Wood Ball Pein-20 oz.	90					58-220	58-220	Sc Hd. Ctr Punch	99
54-124	H0314	Wood Ball Pein-24 oz.	90	57-204	57-204	4 oz Mallet	91	58-220	58-220	Sc Hd. Ctr Punch	99
54-132	H0314	Wood Ball Pein-32 oz.	90								
54-308	54-308	Fibgl B. P.-8 oz.	90	57-208	57-208	8 oz Mallet	91	Axes, Hatchets and Mauls			
54-312	54-312	Fibgl B. P.-12 oz.	90	57-210	57-210	10 oz Mallet	91	56-800	56-800	Wd Chop Maul-6 lb.	94
54-316	54-316	Fibgl B. P.-16 oz.	90	57-212	57-212	16 oz Mallet	91	56-801	56-801	Wd Chop Maul-8 lb.	94
54-324	54-324	Fibgl B. P.-24 oz.	90	57-216	57-216	22 oz Rub. Mallet	92	59-010	59-010	SC1¼ W/S Steel Camp Axe	93
54-332	54-332	Fibgl B. P.-32 oz.	90	57-322	57-322	Compo Cast 14 lbs 10"	96	59-015	59-015	Steel Mail Hatchet	93
54-508	54-508	Compo Cast B P 8 oz 10¼"	97	57-530	57-530	Compo Cast 14 lbs 10"	96	59-022	59-022	Oct Hd Mail Hatchet	93
54-512	54-512	Compo Cast B P 12 lbs 11¼"	97	57-531	57-531	Compo Cast 1½ lbs 11"	96	59-122	59-122	Half Chisel	93
54-516	54-516	Compo Cast B P 16 lbs 12¼"	97	57-532	57-532	Compo Cast 2 lbs 12¼"	96	59-135	59-135	Shingle Hatchet	93
54-524	54-524	Compo Cast B P 24 lbs 13¼"	97	57-533	57-533	Compo Cast 3 lbs 13¼"	96	59-148	59-148	Rip Blids.Hatchet	93
54-531	54-531	Compo Cast B P 32 lbs 10½"	97	57-534	57-534	Compo Cast 4 lbs 10½"	96	59-200	59-200	Camp Axe-1½ lb.	94
54-532	54-532	Compo Cast B P 32 lbs 14"	97	57-540	57-540	Compo Cast 8 oz 10"	96	59-205	59-205	Boys Axe-2¼ lb.	94
54-548	54-548	Compo Cast B P 48 lbs 10¼"	97	57-541	57-541	Cpo Cast 1 1/3 lbs 10¼"	96	59-213	59-213	Michigan Axe-3½ lb.	94
				57-542	57-542	Cpo Cast 1 1/3 lbs 12"	96	59-219	59-219	Dayton Axe-3½ lb.	94
				57-543	57-543	Cpo Cast 2 lbs 13"	96	59-235	59-235	Del Bit Ml Axe-3½ lb.	94
				57-550	57-550	Cmpo Cast 6 lbs 20"	96				
				57-551	57-551	Cmpo Cast 10 lbs 30"	97				
				57-552	57-552	Cmp Cast 12 lbs 30"	97	Nut Drivers			
				57-553	57-553	Cmp Cast 14 lbs 36"	97	61-104	66-507C	7/32" Nut Dvr.	117
				57-560	57-560	Crm Md Hdl 1¼" hd.	98	61-105	66-509C	9/32" Nut Dvr.	117
				57-561	57-561	Crm Md Hdl 1½" hd.	98	61-106	66-506C	3/16" Nut Dvr.	117
				57-562	57-562	Crm Md Hdl 1¾" hd.	98	61-108	66-508C	1/4" Nut Driver	117
				57-563	57-563	Crm Md Hdl 2" hd.	98	61-110	66-510C	5/16" Nut Driver	117
				57-564	57-564	Crm Md Hdl 2¼" hd.	98	61-111	66-511C	11/32" Nut Driver	117
				57-565	57-565	Red Md lts 1½" hd.	98	61-112	66-512C	3/8" Nut Dvr.	117
				57-566	57-566	Red Md lts 1¾" hd.	98	61-114	66-514C	7/16" Nut Dvr.	117
				57-567	57-567	Red Md lts 1¾" hd.	98	61-116	66-516C	1/2" Nut Dvr.	117
				57-568	57-568	Red Md lts 2" hd.	98	61-123	66-523C	9/16" Nut Dvr.	117
				57-569	57-569	Red Md lts 2¼" hd.	98	61-124	66-524C	5/8" Nut Dvr.	117
				57-571	57-571	Grn Tough/1 1/8" hd.	98	61-125	61-125	Hexamnt Drvs.	118
				57-572	57-572	Grn Tough/1 1/4" hd.	98	61-126	61-126	Eng Nut Dvr Set Tray	117
				57-573	57-573	Grn Tough/1 1/2" hd.	98				

Product No.	Catalog No.	Item Description	Pg.
Tap Ropes (continued)			
33-202	P2ME	Yellow 1/2"-2m/6'	61
33-203	P2ME	Yellow 1/2"-3m/10'	61
33-204	PL10	Yellow 1/2"-10'	61
33-212	PL12	Yellow 1/2"-12'	61
33-215	P2ME	Yellow 1/2"-3.5m/12'	61
33-223	33-223	Black Decoral 10'	61
33-235	33-235	Engrs. Yel. 3/4"-12'	60
33-236	61-152	Yellow Metric 1/2"-2m	61
33-238	61-154	Yellow Metric 1/2"-3m	61
33-272	61-112	Yellow 1/2"-12'	61
33-310	PL310	Yellow 1/4"-10'	60
33-312	PL312	Yellow 1/4"-12'	60
33-320	PL320	Yellow 1/4"-20'	60
33-328	P310ME	Y.G.M./In.-3.5m/10'	60

33-412	PL412	Yellow 1"-12'	60
33-423	33-423	3-Way Road-1"-16'	60
33-425	PL425	Yellow 1"-25'	60
33-428	Y & 4-28	3m Mel Pwlik 1/2"-1"	60
33-436	33-436	3m Mel Pwlik 1/2"-1"	60
33-438	33-438	3m M & E Pwlik 1/2"-1"	60
33-458	33-458	5m M & E Pwlik 1/2"-1"	60
33-459	33-459	5m M & E Pwlik 1/2"-1"	60
33-570	33-570	Mens Modar 1/2"-10'	62
33-575	33-575	Brick Mens 1/2"-10'	62
33-909	33-909	Yellow 1/2"-3m/10'	61
33-910	33-910	Yellow 1/2"-10'	61
33-912	33-912	Yellow 1/2"-12'	61

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32-156	32-156	/ Rule 33-156	66
32-158	32-158	/ Rule 33-158	66
32-160	61-151B	/ Rule 61-152	66
32-166	32-166	/ Rule 33-166	66
32-205	8BY	/ Rule 1/2"-16"	66
32-207	8BY	/ Rule MY8, PL8	66
32-209	810Y	/ Rule MY10, PL10	66
32-211	812Y	/ Rule MY12, PL12	66
32-219	32-219	/ Rule P35ME	66
32-221	82MEY	/ Rule MY2ME, P2ME	66
32-223	83MEY	/ Rule MY3ME, P3ME	66
32-236	32-236	/ Rule 33-235	66
32-237	61-153B	/ Rule 61-154	66

32-271	861-112	/ Rule 61-112	66
32-325	32-325	/ Rule 32-525	66
32-333	32-333	/ Rule 33-223	66
32-405	32-405	2m Extenderm Bl.	66
32-407	32-407	2m 6-ft Extenderm	66
32-408	32-408	8 ft Extenderm Bl.	66
32-423	32-423	/ Rule 33-423 (16)	66
32-428	32-428	/ Rule 33-428	66
32-436	32-436	/ Rule 33-436	66
32-438	32-438	/ Rule 33-438	66
32-456	32-456	/ Rule 33-456	66
32-458	32-458	/ Rule 33-458	66
32-571	8MM10Y	/ Rule MM10Y	66
32-573	8MA10Y	/ Rule MA10Y	66
32-610	8310Y	/ Rule MY310, PL310	66

32-611	8312Y	/ Rule MY312, PL312	66
32-612	8412Y	/ Rule PL412	66
32-616	8316Y	/ Rule PL316	66
32-620	8320Y	/ Rule PL320	66
32-621	8310MEY	/ Rule P310ME	66
32-625	8425Y	/ Rule PL425	66
32-812	32-812	1/4" Bl Cartridge-12"	65
32-816	32-816	1/4" Bl Cartridge-20"	65
32-820	32-820	1/4" Bl Cartridge-25"	65
32-825	32-825	1" Bl Cartridge-25"	65
32-909	32-909	/ Rule 33-909	66
32-910	32-910	/ Rule 33-910	66
32-912	32-912	1" Bl Cartridge-12"	66
32-913	32-913	1" Bl Cartridge-12"	66
32-916	32-916	1" Bl Cartridge-16"	65

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34-215	82-215	Yel. 3/4"-15m/50'	65
34-230	82-230	Yel. 3/4"-30m/100'	65
34-315	82-315	Yel. 3/4"-15m	65
34-330	82-330	Yel. 3/4"-30m	65
34-349	8MY50A	50 ft. Replimnt Bl.	66
34-350	8MY50A	Yellow 3/4"-50'	65
34-351	8MY50A	White 3/4"-50'	65
34-353	84-353	White 3/4"-15m/50'	64

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34-391	34-391	White 3/4"-30m	64
34-393	34-393	White 3/4"-30m/100'	64
34-399	8MY100A	100 ft. Replimnt Bl.	66
34-400	8MY100A	White 3/4"-100'	64
34-410	34-410	Non Metallic 50'	64
34-420	34-420	Forgis Tape 100'	64
34-430	34-430	Non Metallic 150'	64
34-450	34-450	White 3/4"-50'	64
34-452	34-452	White 3/4"-50' Engrs	64
34-500	34-500	White 3/4"-100'	64
34-502	34-502	White 3/4"-100' Engrs	64

Fold Wd. Rls. Bench Caliper Rls. & Scales

35-034	34VR	Bench Rule 2"	69
35-035	34 1/2 VR	Bench Rule 1"	69
35-085	106FA	Yellow 6 ft. Mel Eng.	69
35-105A	106FA	Yellow 10 ft. Mel Eng.	69
35-105B	106FA	Yellow Standard-6'	69
35-137	136R	Pocket Caliper-4"	69
35-137	136V	Pocket Caliper-3 1/8"	69
35-226	X226	Yellow 4 Way Ext-6'	68
35-227	X227	Yellow Hwy Duly-6'	68
35-715A	714MECA	Yel-2 mtr.-M.E.(cd)	68

Special Measuring Tools

30-130	30-130	Pwrik Keytape-1/2"-3"	63
30-133	30-133	Pwrik Keytape-1/2"-1m-3"	63

Lewis

41-248	252M	Wood Mason-48"	72
41-324	41-324	Brass Bound-24"	72
41-348	25138R	Brass Bound-48"	72
41-418	H1294-18"	Wood-18" 2 Vials	72
41-424	H1294-24"	Wood-24" 2 Vials	72
42-024	31-210	Mag-24" 3 Vials	72
42-148	31-118	Mag-48" 3 Vials	72
42-180	42-180	Alum.-H1297-18"	73

42-181	42-181	Top Read-313-18"	73
42-187	187	Alum. Line-3/4"	74
42-189	42-189	Pocket Level-5"	74
42-224	5249	Carp-24" 3 Vials	73
42-240	42-240	Alum.-H1297-24"	73
42-241	42-241	Top Read313-24"	73
42-248	42-248	Carp-48" 3 Vials	73
42-280	42-280	Alum.-H1297-28"	73
42-281	42-281	Top Read313-28"	73
42-287	H1287	Alum. Line-3/4"-1 V.	74

42-313	31-3"	Br Pocket Level-76mm	75
42-325	42-325	Magnetic-24" 3 Vials	73
42-344	34V-4"	Machinist-4" 1 Vial	73
42-366	42-366	Anti Choc- Lev-20"	73
42-424	233L	Aluminum-24" 3 Vials	72
42-524	255A-24"	Mag-24" 3 Vials	72
42-528	255A-28"	Mag-28" 3 Vials	72
42-548	255A-48"	Mag-48" 3 Vials	72
42-572	255A-72"	Mag-72" 3 Vials	72
42-578	255A-78"	Mag-78" 3 Vials	72

42-701	42-701	Replacement Val	75
42-702	42-702	Replacement Val	75
42-703	42-703	Replacement Val	75
42-704	42-704	Cvr. for 255A	75
42-705	42-705	Cvr. for 313 Series	75
42-706	42-706	Cvr. /H1297 31 Series	75
42-707	42-707	Replacement Val	75
42-708	42-708	Replacement Val	75
42-710	42-710	Display Box	75
42-711	42-711	Repl. Len-Top Read	75
42-712	42-712	Replimnt Cvr.-Top Rd.	75
42-713	42-713	Cover for 42-180,	75
42-714	42-714	42-240 42-280	75
42-714	42-714	Cover for 42-181,	75
42-714	42-714	42-241 42-281	75

42-748	42-748	Alum.-48" 3 Vials	73
42-772	42-772	Alum.-72" 5 Vials	73
42-778	42-778	Alum.-78" 5 Vials	73
42-824	42-824	Steel Rip Cl.-16 oz.	86
42-164	264	Torpedo-9" 3 Vials	74
43-191	H1291	Torpedo-9" 3 Vials	74
43-263	43-263	Mag Torpedo-9" 3 V.	74
43-464	364	Mag Torpedo-9" 3 V.	74

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Carpenter Squares			
45-010	AR100	Rafter-Aluminum	76
45-012	123	Flat-Steel	77
45-016	AR100	Rafter-Flatless Sil.	76
45-058	64	Mini-Square-Steel	76
45-100	100	Carpenters-Steel	76
45-100	AR100	Rafter-Steel	76
45-300	45-300	Homeworers-Alum.	77
45-500	500C	Carpenter-Steel	76
45-530	45-530	Metric-Steel	77
45-540	45-540	Metric Rafter-Steel	77
45-600	45-600	Flat Sq.-Steel	76
45-900	900	Carpenter-Steel	76
45-910	R900B	Rafter-Blued Steel	76
45-912	B125	Flat-Steel	77

Combination Try Squares and Bevels

46-021	21S	Combination-12"	78
46-024	122EM	Comb-12"-305mm	78
46-026	122M	Combination-300mm	78
46-028	122VEM	Comb-12"-300mm	78
46-029	122VEM	Combination-300mm	78
46-121	21EM	E & M-12"-300mm	78
46-132	122	Combination-12"	78
46-208	201S-8"	Try Square-8"	79

46-222	122V-12"	Combination-12"	78
46-250	46-250	Try Square-250mm	79
46-300	46-300	Try Square-300mm	79
46-520	121S-6"	Try Square-6"	79
46-522	121S-8"	Try Square-8"	79
46-524	121S-10"	Try Square-10"	79
46-526	121S-12"	Try Square-12"	79
46-530	12EM-6"	Metric English-6"	79
46-534	12EM-10"	Metric English-10"	79
46-536	12EM-12"	Metric English-12"	79
46-538	12EM-18"	Try Square-18"	79
46-600	1818	Bevel-8"	80
46-642	3618-8"	Bevel-8"	80

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47-017	41-017	Wing Divider	81
47-050	1050	Chalk Reel-50"	83
47-061	616	Marking Gauge	81
47-065	55G	Marking Gauge	81
47-090	90G	Marking Gauge	81
47-092	91G	Marking Gauge	81
47-095	95G	Marking Gauge	81
47-100	100G	Marking Gauge	81

47-101	42-101	Line Replacement	83
47-102	47-102W	White Chalk-1 oz.	82
47-103	47-103B	Blue Chalk-1 oz.	82
47-104	47-104R	Red Chalk-1 oz.	82
47-170	170	Plumb Bob-5 oz 4 1/4"	82
47-171	171	Plumb Bob-6 oz 5 1/4"	82
47-172	172	Plumb Bob-8 oz 1 1/4"	82
47-401	47-401	Key Keeper	65
47-403	47-403B	Blue Chalk-4 oz.	82
47-404	47-404R	Red Chalk-4 oz.	82

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47-803	47-803B	Blue Chalk-8 oz.	82
47-804	47-804R	Red Chalk-8 oz.	82
50-013	872	Sil. Crvd Claw-13 oz.	86
50-016	871VA	Sil. Crvd Claw-16 oz.	86
50-020	871	Sil. Crvd Claw-20 oz.	86
50-024	871VA	Sil. Crvd Claw-24 oz.	86
50-120	871A	Sil. Crvd Claw-20 oz.	86
50-126	871A	Sil. Crvd Claw-16 oz.	86
50-516	H1VA	Steel Rip Claw-16 oz.	86
50-616	851VA	Sil. Crvd Claw-16 oz.	86
50-713	50-713	Sil. Crvd Claw-13 oz.	86
50-816	50-816	Sil. Crvd Claw-20 oz.	86
50-824	8722L	Sil. Rip Cl.-Palm-22 oz.	86

50-825	8722LC	Sil. Rip Cl.-Ckd-22 oz.	86
50-916	50-916	Sil. Crvd Claw-20 oz.	86
50-910	103	Wd Crvd Claw-7 oz.	87
51-100	102VA	Wd Crvd Cl.-10 oz.	87
51-130	102	Wd Crvd Cl.-13 oz.	87
51-160	101VA	Wd Crvd Cl.-16 oz.	87
51-161	101VA	Wd Crvd Claw-16 oz.	87
51-201	101A	Wd Crvd Claw-20 oz.	87
51-413	H112	Wd Crvd Cl.-13 oz.	87

No.	Qty.	Item Description	Pg.	No.	Qty.	Item Description	Pg.	No.	Qty.	Item Description	Pg.
Penn Saw (continued)				Cold Chisels & Punches (continued)				Surform® Tools and Blades (continued)			
15-514	P68	Blade only-36"	35	18-307	18-307	Cold Chisel 3/4"	42	21-494	1494BC	Ind Flat Repl Bl.	51
15-617	P19	Unity Saw-21"	35	18-308	18-308	Cold Chisel 7/8"	42	21-498	1498BC	Ind 1/2 Rd Repl Bl.	51
15-618	P19B	Blade Only	35	18-309	18-309	Cold Chisel 7/8"	42	21-515	21-515	Blade-2 per Card	50
15-620	P21	6" Drywall Saw	34	18-310	18-310	Cold Chisel 1"	42	21-530	21-530	Blade-2 per Card	51
15-621	P22	15" Drywall Saw	34	18-311	18-311	Cold Chisel 1"	42				
6-622	P61	Screws Doz.	34	18-312	18-312	Cold Chisel 3/4"	42				
3-623	P62	Screws Doz.	34	18-320	18-320	Diamond Pt. Chs 3/16"	42	Fibres			
15-634	P75	Keyhole Saw-10"	34	18-321	18-321	Diamond Pt. Chs 3/16"	42	22-158	22-158	All Purpose-1 1/4"	56
15-635	P76	Mitre-12"	34	18-322	18-322	Diamond Pt. Chs 3/8"	42				
15-636	P78	Mitre-14"	34	18-323	18-323	Diamond Pt. Chs 1/2"	42				
15-637	P78	Mitre-16"	34	18-330	18-330	Flat Cape Chs 1/8"	42	Abrasives and Accessories			
15-643	P93	Cable Saw-12"	34	18-331	18-331	Flat Cape Chs 1/4"	42	25-150	25-150	Swirlaway M Sander	56
15-644	P100	Nest	35	18-332	18-332	Flat Cape Chs 3/8"	42	25-158	H246K	Sand & Polishing Kit	56
15-653	P110	Nest	35	18-333	18-333	Rivet Buster 3/4"	43	25-471	H472-1	Sand Disc-50 Grit	56
15-654	P116	Pruner-16"	35	18-340	18-340	Pin Punch 1/16"	43	25-472	H472-1/0	Sand Disc-80 Grit	56
15-655	P118	Pruner-18"	35	18-341	18-341	Pin Punch 3/32"	43	25-473	H472-3/0	Sand Disc-120 Grit	56
15-657	P120	Compass-12"	34	18-342	18-342	Pin Punch 1/8"	43	Puty Knives, Scrapers, and Joint Knives			
15-658	P120B	Compass Blade-12"	34	18-343	18-343	Pin Punch 5/32"	43	28-008	C80	Bl-Fil-Fits 80m	55
15-659	P129	Pruner-18"	35	18-344	18-344	Pin Punch 3/16"	43	28-035	OHS-3"x5"	Reinshg Hd Scraper	56
15-660	P129	Pruner-20"	35	18-345	18-345	Pin Punch 7/32"	43				
15-662	P133	Pruner-10"	35	18-348	18-348	Pin Punch 1/4"	43	28-135	28-135	1 1/2" Bent Glazier	52
15-664	P140	Compass-14"	34	18-347	18-347	Pin Punch 5/16"	43	28-136	28-136	1 1/4" Bent Glazier	52
15-666	P151	Pruner-14"	35	18-348	18-348	Lg Pin Pnch 3/16"	43	28-138	28-138	3/4" Bent Glazier	52
15-672	P185	Dovetail-10"	50	18-349	18-349	Lg Pin Pnch 1/4"	43	28-140	28-140	3/4" Bent Glazier	52
15-673	P189	Scraper	35	18-350	18-350	Lg Pin Pnch 5/16"	43	28-141	28-141	1 1/2" Stiff-Nylon Hdl.	52
15-678	P216A	Hand Saw-16" 10 pt.	33	18-355	18-355	Hil Rd Nose Chs 3/16"	44	28-142	28-142	2" Stiff-Nylon Hdl.	52
15-679	P220A	Hand Saw-20" 10 pt.	33	18-356	18-356	Hil Rd Nose Chs 1/4"	44	28-170	28-170	3" Bent Burn Off	54
15-680	P226A	Hand Saw-26" 8 pt.	33	18-357	18-357	Hil Rd Nose Chs 1/8"	44	28-171	28-171	4" Hd Burn Off	54
15-681	P250	Hand Saw-26" 10 pt.	33	18-360	18-360	Starter Pnch 1/16"	43	28-199	28-199	3 1/2" Hwy Duty Scrp.	56
15-684	P250	C C Circ Saw-6 1/2"	39	18-361	18-361	Starter Pnch 3/32"	43	28-238	28-238	5" Flex-Nylon Hdl.	52
15-685	P250	C C Circ Saw-7"	39	18-362	18-362	Starter Pnch 1/8"	43	28-239	28-239	3" Flex-Nylon Hdl.	52
15-686	P250	C C Circ Saw-7 1/2"	39	18-363	18-363	Starter Pnch 5/32"	43	28-240	28-240	1 1/4" Flex-Nylon Hdl.	52
15-687	P250	C C Comb C S-6 1/2"	39	18-364	18-364	Starter Pnch 3/16"	43	28-241	28-241	1 1/2" Flex-Nylon Hdl.	52
15-692	P260	Std Comb C S-7"	39	18-365	18-365	Starter Pnch 1/4"	43	28-242	28-242	2" Flex-Nylon Hdl.	52
15-693	P260	Std Comb C S-7 1/2"	39	18-366	18-366	Starter Pnch 5/16"	43	28-244	28-244	4" Flex-Nylon Hdl.	52
15-698	P270	Circ Saw Rip-6 1/2"	39	18-370	18-370	Prick Pnch 5/16"	43	28-246	28-246	6" Flex-Nylon Hdl.	52
15-699	P270	Circ Saw Rip-7"	39	18-371	18-371	Prick Pnch 1/2"	43	28-250	28-250	Hand Scraper	55
15-700	P270	Circ Saw Rip-7 1/2"	39	18-390	18-390	Center Pnch 5/32"	43	28-291	291/5	Paint & Wd. Scraper	55
15-705	P280	C S Chis Comb-6 1/2"	39	18-373	18-373	Center Pnch 1/8"	43	28-292	28-292	Hl Scrp Bl. / 28-293	56
15-708	P280	C S Chis Comb-7"	39	18-391	18-391	Center Pnch 1/16"	43	28-293	293	Paint & Wd. Scraper	55
15-707	P280	C S Chis Comb-7 1/2"	39	18-392	18-392	Center Pnch 1/764"	43	28-500	28-500	Razor Bl. Scrp.	55
15-736	P290	Circ Fine C C-6 1/2"	39	18-376	18-376	Center Pnch 3/8"	43	28-510	28-510C	Edge Razor Bl (10)	55
15-737	P290	Circ Fine C C-7"	39	18-380	18-380	Drift Pnch 5/16"	43	28-538	28-538	5" Flex-Wood Hdl.	53
15-738	P290	Circ Fine C C-7 1/2"	39	18-381	18-381	Drift Pnch 3/16"	43	28-539	28-539	3" Flex-Wood Hdl.	53
15-740	P295	Masonry 6"	39	18-382	18-382	Drift Pnch 1/4"	43	28-540	28-540	1 1/4" Flex-Wood Hdl.	53
15-741	P295	Masonry 6 1/2"	39	18-383	18-383	Drift Punch 5/16"	43	28-541	28-541	1 1/4" Stiff-Wd Hdl.	53
15-742	P295	Masonry-7"	39	18-384	18-384	Lg T Drift Pnch 1/8"	43	28-542	28-542	1 1/4" Chis-Wd Hdl.	53
15-743	P295	Masonry-8"	39	18-385	18-385	Drift Pnch 3/16"	43	28-543	28-543	2" Stiff-Wd Hdl.	53
15-764	P500A	Hand Saw-26" 8 pt.	33	18-393	18-393	7 pc. Cold Chisel	44	28-546	28-546	6" Flex-Wood Hdl.	53
15-764	P140B	Compass Blade-14"	34	18-396	18-396	6 pc. Pin Punch	44	28-594	28-593A	Window Scraper(2)	55
Wood Chisels				18-397	18-397	12 pc. B-C Set	44	28-609	28-609	Pnt Scrp 4 Edge Bl.	55
16-235	55C	Glazier-2"	41	55-535	1450-3 1/4"	Brick Set	41	28-612	28-612	Pnt Scrp 4 Edge Bl.	55
16-237	210	Flrg. / Elect.-Vx18"	41	Mitre Boxes				28-618	28-618	Pnt Scrp 1 1/2" Edge Bl.	56
16-238	210L	Flrg. / Elect.-Vx12"	41	19-034	19-034	Workmaster®	46	28-617	28-617	Pnt Scrp 1 1/2" Edge Bl.	56
16-250	16-250	Carving Set	46	19-035	19-035	Workmaster® w/Saw	46	28-619	28-619	Pnt Scrp 2 1/2" Edge Bl.	56
16-269	40C	Cabinet-6"	39	19-160	19-160	W/Saw 26"x4"	46	28-622	28-622	Pnt Scrp 2 1/2" Edge Bl.	56
16-404	40C	Cabinet-7 1/2"	39	65-060	60MM	W/Saw 24"x4"	46	28-631	28-631	Repl Blade-1 1/2" Edge	56
16-406	40C	Cabinet-9"	39	65-100	100MM	W/Saw 24"x4"	47	28-634	28-634	Repl Bl 2 1/2" 4 Edge	56
16-407	40C	Cabinet-11 1/2"	39	65-235	235MM	W/Saw 28"x5"	47	28-700	28-700	1 1/2" Stiff-Poly Handle	53
16-408	40C	Cabinet-14"	39	65-236	236MM	Metal Cutting Box	47	28-703	28-703	3" Stiff-Poly Handle	53
16-409	40C	Cabinet-16"	39	65-237	237MM	w/b S 30 mm 26"x4"	45	28-711	28-711	1 1/2" Flex-Poly Handle	53
16-500A	64A	4 pc Set-Vx-Vx-Vx-Vx-1"	40	65-246	246MM	w/b S 30 mm 26"x5"	45	28-713	28-713	3" Flex-Poly Handle	53
16-601A	66A	6 Piece Set	40	65-254	254MM	w/b S 30 mm 26"x5"	45	28-714	28-714	4 1/2" Flex-Poly Handle	53
16-602A	69A	9 Piece Set	40	65-258	258MM	W/Saw 24"x5"	45	28-718	28-718	6" Flex-Poly Handle	53
16-604	60C	Butt-1/4"	40	65-306	306MM	W/Saw 30"x5"	45				
16-606	60C	Butt-3/8"	39	85-400	400	Mitre Vise-4" Cap.	47	Type Rules			
16-608	60C	Butt-1/2"	39	Surform® Tools and Blades				30-080	CA08W	Carded-White 1/4"-8"	62
18-618	60C	Butt-5/8"	39	21-115	21-115	Shaver™-7 1/4"	50	30-112	CA012W	Carded-White 1/4"-12"	62
18-612	60C	Butt-3/4"	39	21-125	21-125	Mini-Flet™	50	30-127	ME06	Met. White-1/4"-2m/6"	62
18-616	60C	Butt-1"	39	21-285	285	File-Reg Cut Bl.	50	30-131	ME10	M White-1/4"-3m/10"	62
18-620	60C	Butt-1 1/4"	39	21-291	291BC	Rd. Replacmnt Blade	51	30-131	ME10	M White-1/4"-3m/10"	62
18-624	60C	Butt-1 1/2"	39	21-293	293BC	Flat Repl Blade-Reg	51	30-506	30-506	White-1/2"-6"	62
18-632	60C	Butt-2"	39	21-295	295	File Type-Reg Cut Bl.	50	30-008	MYT8	Yellow Blade-1/4"-8"	63
				21-296	296	Pl. Type-Reg Cut Bl.	50	30-008	MYT8	Yellow Blade-1/4"-8"	63
				21-297	297	Round File Type	50	30-018	MYT18	Yellow Blade-1/4"-10"	63
				21-299	299BC	Ys Rd Repl Bl.-Reg.	51	30-022	TY2ME	M Yellow Bl.-2m/6"	63
				21-393	393BC	Flat Repl Blade-Fine	51	30-024	TY3ME	M Yellow Bl.-3m/10"	63
				21-399	399BC	Pocket Type Repl Bl.	51	30-024	TY3ME	M Yellow Bl.-3m/10"	63
				21-399	399	Pocket Plane Type	50	30-024	TY3ME	M Yellow Bl.-3m/10"	63
				21-430	21-430	10" Carb Bl. Coarse	51	30-024	TY3ME	M Yellow Bl.-3m/10"	63
				21-431	21-431	10" Carb Bl. Med.	51	30-024	TY3ME	M Yellow Bl.-3m/10"	63
				21-432	21-432	10" Carb Bl. Fine	51	30-024	TY3ME	M Yellow Bl.-3m/10"	63
				21-433	21-433	5 1/2" Carb Bl. Coarse	51	30-024	TY3ME	M Yellow Bl.-3m/10"	63
				21-433	21-433	5 1/2" Carb Bl. Med.	51	30-024	TY3ME	M Yellow Bl.-3m/10"	63
				21-483	1483	Two-Way Tool	50	30-166	33-166	Y & M (in.-1/4" 3m/26"	60

Product No.	Catalog No.	Item Description	Pg.	Product No.	Catalog No.	Item Description	Pg.	Product No.	Catalog No.	Item Description	Pg.
Bench Block and Specialty Planes				Power Saw Blades (continued)				Power Saw Blades (continued)			
12-003	4	Prof. Bench 2-1/4" x 2"	23	15-037	15-037	Rec. S. B. (5) 6 tip 4"	37	15-782	15-782	1 1/4" Mandrel	38
12-004	4	Prof. Bench 2-1/4" x 2"	23	15-038	15-038	Rec. S. B. (5) 10 tip 4"	37	15-783	15-783	2 1/2" Hole Saw	38
12-005	4	Prof. Bench 2-1/4" x 2"	23	15-039	15-039	Rec. S. B. (5) 10 tip 6"	37	15-784	15-784	2 1/4" Hole Saw	38
12-006	6	Prof. Bench 2-1/4" x 18"	22	15-040	15-040	Rec. S. B. (5) 16 tip 4"	37	15-785	15-785	2 1/8" Hole Saw	38
12-007	7	Prof. Bench 2-1/4" x 22"	22	15-041	15-041	Extra Fine Bl. 6"	39	15-786	15-786	2" Hole Saw	38
12-014	4C	Prof. Bench 2-1/4" x 2"	22	15-042	15-042	Extra Fine Bl. 6 1/2"	39	15-787	15-787	1 7/8" x 3" Hole Saw	38
12-015	5C	Prof. Bench 2-1/4" x 2"	22	15-043	15-043	Extra Fine Bl. 7"	39	15-788	15-788	1 3/4" Hole Saw	38
12-016	6C	Prof. Bench 2-1/4" x 18"	22	15-044	15-044	Extra Fine Bl. 7 1/2"	39	15-789	15-789	1 5/8" Hole Saw	38
12-025	5 1/2 P	Prof. Bench 2-1/4" x 11 1/2"	22	15-045	15-045	Extra Fine Bl. 8"	39	15-790	15-790	1 1/2" Hole Saw	38
12-203	H1203	Mod. Bch. 1 1/4" x 4"	22	15-046	15-046	Extra Fine Bl. 8 1/2"	39	15-791	15-791	1 3/4" Hole Saw	38
12-204	H1204	Mod. Bch. 2-1/4" x 4"	22	15-047	15-047	Rec. S. B. (5) 18 tip 6"	37	15-792	15-792	1 1/4" Hole Saw	38
12-205	H1205	Mod. Bch. 2-1/4" x 4"	22	15-048	15-048	Rec. S. B. (5) 18 tip 6"	37	15-793	15-793	1 1/8" Hole Saw	38
13-019	8 1/4	Blk. Pl. 1 5/8" x 6"	23	15-051	15-051	Rec. S. B. (5) 18 tip 6"	37	15-794	15-794	1 1/2" Hole Saw	38
13-019	8 1/4	Blk. Pl. 1 5/8" x 6"	23	15-052	15-052	Cross Cut Bl. 6"	39	15-795	15-795	7/8" Hole Saw	38
13-060	80 1/2 P	Blk. Pl. 1 5/8" x 6"	23	15-053	15-053	Cross Cut Bl. 6 1/2"	39	15-796	15-796	3/4" Hole Saw	38
13-075	75	Blind Rbl. 1 3/32" x 4"	24	15-054	15-054	Cross Cut Bl. 7"	39				
13-078	78	Blind Rbl. 1 1/4" x 4"	24	15-055	15-055	Cross Cut Bl. 7 1/2"	39				
13-100	80M	Cut. Scrp. 2 1/4" x 11 1/2"	57	15-056	15-056	Cross Cut Bl. 8"	39				
13-110	110	Blk. Pl. 1 5/8" x 7"	23	15-057	15-057	Cross Cut Bl. 8 1/2"	39				
13-118	118P	Blk. Pl. 1 5/8" x 6"	23	15-058	15-058	Cross Cut Bl. 9"	39				
13-151	151SS	S. Shave 2 1/8" x 10"	26	15-059	15-059	Rec. S. B. (5) 5 tip 6"	37				
13-200	200	Blk. Pl. 1 5/8" x 7"	23	15-060	15-060	Rec. S. B. (5) 5 tip 6"	37				
13-247	H1247	Blk. Pl. 1 5/8" x 6"	23	15-061	15-061	Rec. S. B. (5) 18 tip 3 1/2"	37				
13-503	13-503	Cutter	24	15-062	15-062	Rec. S. B. (5) 18 tip 3 1/2"	37				
13-506	13-506	Cutter	24	15-063	15-063	St. Comb. Bl. 6"	39				
13-513	13-513	Cutter	24	15-064	15-064	St. Comb. Bl. 6 1/2"	39				
14-018	14-018	18" Machete	26	15-065	15-065	St. Comb. Bl. 7"	39				
14-022	14-022	22" Machete	26	15-066	15-066	St. Comb. Bl. 7 1/2"	39				
14-024	14-024	24" Machete	26	15-067	15-067	St. Comb. Bl. 8"	39				
14-320	14-320	Gross Cut. 6 1/2" x 10"	26	15-068	15-068	St. Comb. Bl. 8 1/2"	39				
14-373	373	Bull Marker - 3"	26	15-069	15-069	St. Comb. Bl. 9"	39				
14-374	374	Bull Marker - 3 1/2"	26	15-070	15-070	St. Comb. Bl. 10"	39				
14-375	373 1/2	Bull Marker - 3 1/2"	26	15-071	15-071	Rec. S. B. (5) 10 tip 6"	37				
14-376	373 1/2	Bull Marker - 3 1/2"	26	15-072	15-072	Rec. S. B. (5) 14 tip 2"	37				
14-377	373 1/2	Bull Marker - 3 1/2"	26	15-073	15-073	Rip Blade 6"	39				
14-378	373 1/2	Bull Marker - 3 1/2"	26	15-074	15-074	Rip Blade 6 1/2"	39				
14-379	373 1/2	Bull Marker - 3 1/2"	26	15-075	15-075	Rip Blade 7"	39				
14-380	373 1/2	Bull Marker - 3 1/2"	26	15-076	15-076	Rip Blade 7 1/2"	39				
14-381	373 1/2	Bull Marker - 3 1/2"	26	15-077	15-077	Rip Blade 8"	39				
14-382	373 1/2	Bull Marker - 3 1/2"	26	15-078	15-078	Rip Blade 8 1/2"	39				
14-383	373 1/2	Bull Marker - 3 1/2"	26	15-079	15-079	Rip Blade 9"	39				
14-384	373 1/2	Bull Marker - 3 1/2"	26	15-080	15-080	Rec. S. B. (5) 18 tip 2"	37				
14-385	373 1/2	Bull Marker - 3 1/2"	26	15-081	15-081	Rec. S. B. (5) 14 tip 2"	37				
14-386	373 1/2	Bull Marker - 3 1/2"	26	15-082	15-082	Rec. S. B. (5) 14 tip 6"	37				
14-387	373 1/2	Bull Marker - 3 1/2"	26	15-083	15-083	Ch. Comb. Bl. 6"	39				
14-388	373 1/2	Bull Marker - 3 1/2"	26	15-084	15-084	Ch. Comb. Bl. 6 1/2"	39				
14-389	373 1/2	Bull Marker - 3 1/2"	26	15-085	15-085	Ch. Comb. Bl. 7"	39				
14-390	373 1/2	Bull Marker - 3 1/2"	26	15-086	15-086	Ch. Comb. Bl. 7 1/2"	39				
14-391	373 1/2	Bull Marker - 3 1/2"	26	15-087	15-087	Ch. Comb. Bl. 8"	39				
14-392	373 1/2	Bull Marker - 3 1/2"	26	15-088	15-088	Ch. Comb. Bl. 8 1/2"	39				
14-393	373 1/2	Bull Marker - 3 1/2"	26	15-089	15-089	Ch. Comb. Bl. 9"	39				
14-394	373 1/2	Bull Marker - 3 1/2"	26	15-090	15-090	Ch. Comb. Bl. 9 1/2"	39				
14-395	373 1/2	Bull Marker - 3 1/2"	26	15-091	15-091	Rec. S. B. (5) 32 tip 4"	37				
14-396	373 1/2	Bull Marker - 3 1/2"	26	15-092	15-092	Rec. S. B. (5) 14 tip 4"	37				
14-397	373 1/2	Bull Marker - 3 1/2"	26	15-093	15-093	Msnry Bl. 6"	39				
14-398	373 1/2	Bull Marker - 3 1/2"	26	15-094	15-094	Msnry Bl. 6 1/2"	39				
14-399	373 1/2	Bull Marker - 3 1/2"	26	15-095	15-095	Msnry Bl. 7"	39				
14-400	373 1/2	Bull Marker - 3 1/2"	26	15-096	15-096	Msnry Bl. 8"	39				
14-401	373 1/2	Bull Marker - 3 1/2"	26	15-097	15-097	Rec. S. B. (5) 14 tip 6"	37				
14-402	373 1/2	Bull Marker - 3 1/2"	26	15-098	15-098	Rec. S. B. (5) 14 tip 6"	37				
14-403	373 1/2	Bull Marker - 3 1/2"	26	15-099	15-099	Rec. S. B. (5) 18 tip 6"	37				
14-404	373 1/2	Bull Marker - 3 1/2"	26	15-100	15-100	Rec. S. B. (5) 18 tip 6"	37				
14-405	373 1/2	Bull Marker - 3 1/2"	26	15-101	15-101	Rec. S. B. (5) 18 tip 5 1/8"	37				
14-406	373 1/2	Bull Marker - 3 1/2"	26	15-102	15-102	Rec. S. B. (5) 14 tip 3 1/2"	37				
14-407	373 1/2	Bull Marker - 3 1/2"	26	15-103	15-103	Rec. S. B. (5) 14 tip 3 1/2"	37				
14-408	373 1/2	Bull Marker - 3 1/2"	26	15-104	15-104	Sabre S. B. - 6" tip 3"	36				
14-409	373 1/2	Bull Marker - 3 1/2"	26	15-105	15-105	Sabre S. B. - 6" tip 3"	36				
14-410	373 1/2	Bull Marker - 3 1/2"	26	15-106	15-106	Sabre S. B. - 8" tip 3"	36				
14-411	373 1/2	Bull Marker - 3 1/2"	26	15-107	15-107	Sabre S. B. - 8" tip 3"	36				
14-412	373 1/2	Bull Marker - 3 1/2"	26	15-108	15-108	Sabre S. B. - 10" tip 3"	36				
14-413	373 1/2	Bull Marker - 3 1/2"	26	15-109	15-109	Sabre S. B. - 10" tip 3"	36				
14-414	373 1/2	Bull Marker - 3 1/2"	26	15-110	15-110	Sabre S. B. - 12" tip 3"	36				
14-415	373 1/2	Bull Marker - 3 1/2"	26	15-111	15-111	Sabre S. B. - 14" tip 3"	36				
14-416	373 1/2	Bull Marker - 3 1/2"	26	15-112	15-112	Sabre S. B. - 16" tip 3"	36				
14-417	373 1/2	Bull Marker - 3 1/2"	26	15-113	15-113	Sabre S. B. - 18" tip 3"	36				
14-418	373 1/2	Bull Marker - 3 1/2"	26	15-114	15-114	Sabre S. B. - 20" tip 3"	36				
14-419	373 1/2	Bull Marker - 3 1/2"	26	15-115	15-115	Sabre S. B. - 22" tip 3"	36				
14-420	373 1/2	Bull Marker - 3 1/2"	26	15-116	15-116	Sabre S. B. - 24" tip 3"	36				
14-421	373 1/2	Bull Marker - 3 1/2"	26	15-117	15-117	Sabre S. B. - 26" tip 3"	36				
14-422	373 1/2	Bull Marker - 3 1/2"	26	15-118	15-118	Sabre S. B. - 28" tip 3"	36				
14-423	373 1/2	Bull Marker - 3 1/2"	26	15-119	15-119	Sabre S. B. - 30" tip 3"	36				
14-424	373 1/2	Bull Marker - 3 1/2"	26	15-120	15-120	Sabre S. B. - 32" tip 3"	36				
14-425	373 1/2	Bull Marker - 3 1/2"	26	15-121	15-121	Sabre S. B. - 34" tip 3"	36				
14-426	373 1/2	Bull Marker - 3 1/2"	26	15-122	15-122	Sabre S. B. - 36" tip 3"	36				
14-427	373 1/2	Bull Marker - 3 1/2"	26	15-123	15-123	Sabre S. B. - 38" tip 3"	36				
14-428	373 1/2	Bull Marker - 3 1/2"	26	15-124	15-124	Sabre S. B. - 40" tip 3"	36				
14-429	373 1/2	Bull Marker - 3 1/2"	26	15-125	15-125	Sabre S. B. - 42" tip 3"	36				
14-430	373 1/2	Bull Marker - 3 1/2"	26	15-126	15-126	Sabre S. B. - 44" tip 3"	36				
14-431	373 1/2	Bull Marker - 3 1/2"	26	15-127	15-127	Sabre S. B. - 46" tip 3"	36				
14-432	373 1/2	Bull Marker - 3 1/2"	26	15-128	15-128	Sabre S. B. - 48" tip 3"	36				
14-433	373 1/2	Bull Marker - 3 1/2"	26	15-129	15-129	Sabre S. B. - 50" tip 3"	36				
14-434	373 1/2	Bull Marker - 3 1/2"	26	15-130	15-130	Sabre S. B. - 52" tip 3"	36				
14-435	373 1/2	Bull Marker - 3 1/2"	26	15-131	15-131	Sabre S. B. - 54" tip 3"	36				
14-436	373 1/2	Bull Marker - 3 1/2"	26	15-132	15-132	Sabre S. B. - 56" tip 3"	36				
14-437	373 1/2	Bull Marker - 3 1/2"	26	15-133	15-133	Sabre S. B. - 58" tip 3"	36				
14-438	373 1/2	Bull Marker - 3 1/2"	26	15-134	15-134	Sabre S. B. - 60" tip 3"	36				
14-439	373 1/2	Bull Marker - 3 1/2"	26	15-135	15-135	Sabre S. B. - 62" tip 3"	36				
14-440	373 1/2	Bull Marker - 3 1/2"	26	15-136	15-136	Sabre S. B. - 64" tip 3"	36				
14-441	373 1/2	Bull Marker - 3 1/2"	26	15-137	15-137	Sabre S. B. - 66" tip 3"	36				
14-442	373 1/2	Bull Marker - 3 1/2"	26	15-138	15-138	Sabre S. B. - 68" tip 3"	36				
14-443	373 1/2	Bull Marker - 3 1/2"	26	15-139	15-139	Sabre S. B. - 70" tip 3"	36				
14-444	373 1/2	Bull Marker - 3 1/2"	26	15-140	15-140	Sabre S. B. - 72" tip 3"	36				
14-445	373 1/2	Bull Marker - 3 1/2"	26	15-141	15-141	Sabre S. B. - 74" tip 3"	36				
14-446	373 1/2	Bull Marker - 3 1/2"	26	15-142	15-142	Sabre S. B. - 76" tip 3"	36				
14-447	373 1/2	Bull Marker - 3 1/2"	26	15-143	15-143	Sabre S. B. -					

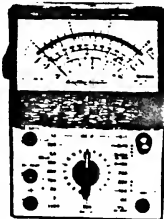
Product No.	Category No.	Item Description	Pg.	Product No.	Category No.	Item Description	Pg.	Product No.	Category No.	Item Description	Pg.
Auger, Expansion Bits				Bits and Accessories (continued)				Router Bits (continued)			
01-104	100RJ-4	DBL. Tw. Auger Bit	5	04-212	225-1/4	Spade Bit - 1/4" "	7	05-622	05-622	9/32" Dovetail	13
01-105	100RJ-5	DBL. Tw. Auger Bit	5	04-214	225-1/4	Spade Bit - 7/8" "	7	05-623	05-623	9/16" Dovetail	13
01-106	100RJ-6	DBL. Tw. Auger Bit	5	04-218	225-1/4	Spade Bit - 1 1/2" "	7	05-624	05-624	1 1/8" V-Grain	13
01-107	100RJ-7	DBL. Tw. Auger Bit	5	04-312	4-11/16	Power-Mate® Ext. - 12" "	9	05-625	05-625	1 1/4" Comb Panel	13
01-108	100RJ-8	DBL. Tw. Auger Bit	5	04-413	4-11/16	Drill Guide	9	05-701	05-701	1 1/4" Straight 1 Flute	12
01-109	100RJ-9	DBL. Tw. Auger Bit	5	04-418	418	Circle Cutter	9	05-702	05-702	5/16" Straight 1 Flute	12
01-110	100RJ-10	DBL. Tw. Auger Bit	5	04-419	419	Circle Cutter	9	05-703	05-703	3/8" Straight 1 Flute	12
01-111	100RJ-11	DBL. Tw. Auger Bit	5	04-601	04-601	Drill Csk - 1/4" x#6	11	05-704	05-704	1/2" Straight 1 Flute	12
01-112	100RJ-12	DBL. Tw. Auger Bit	5	04-602	04-602	Drill Csk - 1/2" x#6	11	05-705	05-705	5/8" Straight 1 Flute	12
01-113	100RJ-13	DBL. Tw. Auger Bit	5	04-603	04-603	Drill Csk - 1 1/4" x#8	11	05-706	05-706	1 1/4" Rounding O/B	12
01-114	100RJ-14	DBL. Tw. Auger Bit	5	04-604	04-604	Drill Csk - 1 1/2" x#8	11	05-707	05-707	3/8" Rounding O/B	12
01-115	100RJ-15	DBL. Tw. Auger Bit	5	04-605	04-605	Drill Csk - 1 1/2" x#8	11	05-708	05-708	3/8" Chamfer	13
01-116	100RJ-16	DBL. Tw. Auger Bit	5	04-606	04-606	Drill Csk - 1 1/2" x#8	11	05-709	05-709	45° Chamfer	13
01-120	8X032 1/4	13 pc Aug Bit Set	5	04-607	04-607	Drill Csk - 1 1/2" x#10	11	05-710	05-710	3/8" Rabbet	13
01-130	R032 1/4	13 pc Aug Bit Set	5	04-608	04-608	Drill Csk - 1 1/2" x#10	11	05-711	05-711	5/32" Roman Ogee	13
01-204	H1227-4	Sld. Ctr. Auger Bit	5	04-609	04-609	Drill Csk - 1 1/2" x#10	11	05-712	05-712	Arbor & 2 B. B.	13
01-205	H1227-5	Sld. Ctr. Auger Bit	5	04-610	04-610	Drill Csk - 1 1/2" x#10	11	05-713	05-713	1 1/2" V-Groove	13
01-206	H1227-6	Sld. Ctr. Auger Bit	5	04-611	04-611	Drill Csk - 1 1/2" x#12	11	05-714	05-714	1 1/2" Hinge Mortise	13
01-207	H1227-7	Sld. Ctr. Auger Bit	5	04-612	04-612	Drill Csk - 2" x#12	11	05-720	05-720	1 1/4" Comb Panel	13
01-208	H1227-8	Sld. Ctr. Auger Bit	5	04-613	1525A	5 pc. Drt. & Csk. Set	11	05-721	05-721	Lam. Trim Flush B.B.	13
01-209	H1227-9	Sld. Ctr. Auger Bit	5	04-621	04-621	Screw-Mate® #6	11	05-722	05-722	Lam. Trim Flush B.B.	13
01-210	H1227-10	Sld. Ctr. Auger Bit	5	04-622	04-622	Screw-Mate® #8	11	05-723	05-723	Lam. Trim Flush Ctr.	13
01-211	H1227-11	Sld. Ctr. Auger Bit	5	04-623	04-623	Screw-Mate® #10	11	05-724	05-724	Lam. Trim Flush Ctr.	13
01-212	H1227-12	Sld. Ctr. Auger Bit	5	04-624	04-624	Screw-Mate® #12	11	05-725	05-725	Repl. Ball Bearing	13
01-213	H1227-13	Sld. Ctr. Auger Bit	5	04-701	04-701	Sc. Sink 1/4" x#6	10	05-800	05-800	M.A. Sec. Displ. Mer.	15
01-214	H1227-14	Sld. Ctr. Auger Bit	5	04-702	04-702	Sc. Sink 1/4" x#8	10	05-801	05-801	B.A. Sec. Displ. Mer.	15
01-215	H1227-15	Sld. Ctr. Auger Bit	5	04-703	04-703	Sc. Sink 1/4" x#10	10	05-820	05-820	3 pc. Starter Set	14
01-216	H1227-16	Sld. Ctr. Auger Bit	5	04-704	04-704	Sc. Sink 1/4" x#12	10	05-821	05-821	6 pc. Intermediate Set	14
01-220	H1306	6 pc. Sld. Ctr. Set	5	04-705	04-705	Sc. Sink 1/4" x#8	10	05-822	05-822	4 pc. Decorator Set	14
01-710	01-710	Expansion Bit	5	04-706	04-706	Sc. Sink 1/4" x#10	10	05-823	05-823	3 pc. Lam. Trim Set	14
01-711	01-711	Expansion Bit	5	04-707	04-707	Sc. Sink 1/4" x#10	10	Knives			
02-253	H1253A	Handyman® - 10"	4	04-708	04-708	Sc. Sink 1/4" x#10	10	10-009	09	Quick Point™ Knife	18
02-322	923A-10"	Professional™ B.B.	4	04-709	04-709	Sc. Sink 1/4" x#10	10	10-039	10-039	Key Chain Miley Knife	19
02-323	923A-12"	Professional™ B.B.	4	04-710	04-710	Sc. Sink 1/2" x#10	10	10-049	10-049	Pocket Knife	19
02-942	945A-12"	Better Bit Brace	4	04-711	04-711	Sc. Sink 1/2" x#12	10	10-059	10-059	Folding Pocket Knife	19
02-945	945A-10"	Better Bit Brace	4	04-712	04-712	Sc. Sink 1/2" x#12	10	10-099	99	Retractable Knife	18
Hand, Push Drills				04-713	1524S	5 pc. Sc. Sink™ Set	10	10-109A	10-109A	Slim™ Knife	19
03-043	41YC	Push Drill w/8 pts.	7	04-721	04-721	Plug Cutter/1524A-6	11	10-199	199	Heavy Duty Knife	18
03-048	45Y	Push Drill w/8 pts.	7	04-722	04-722	Plug Cutter/1524A-10	11	10-299	299	Utility Knife	18
03-049	03-049	Push Drill 11" long	7	04-723	04-723	Plug Cutter/1524A-10	11	10-300	10-300	Quick Point™ Bid. Knife	19
03-215	H1214A	Hand Drill - 10 1/4"	6	04-724	04-724	Plug Cutter/1524A-12	11	10-301	10-301	Quick Point™ Bid. Knife	19
03-222	H12208	Hand Drill - 10 1/4"	6	04-725	04-725	Plug Cutter/105-1/2"	11	10-401	10-401	Hobby Knt./Med. Duty	19
03-215	514A-10"	Hand Drill - 10 1/4"	6	04-726	04-726	Plug Cutter/105-1/2"	11	10-402	10-402	Hobby Knt./Med. Duty	19
03-624	624A	Heavy Duty - 13 1/4"	6	04-727	04-727	Plug Cutter/105-1/2"	11	10-403	10-403	Hobby Knt./Heavy Duty	19
Bits and Accessories				04-771	04-771	Hdy. • Msny Bit 1/4"	8	10-499	28-499	Ok Change Knt./Rtrct.	18
04-001	105A	4 pc. Pwr. Bore Set	7	04-772	04-772	Hdy. • Msny Bit 3/8"	8	10-505	10-505	Knife & Blade Kit	20
04-006	105-1/4	Pwr. Bore Bit-1/4"	6	04-773	04-773	Hdy. • Msny Bit 1/2"	8	10-515	10-515	Carpet Knife	18
04-008	105-1/2	Pwr. Bore Bit-1/2"	6	04-774	04-774	Hdy. • Msny Bit 3/4"	8	10-519	10-519	Scoring Knife	18
04-010	105-3/4	Pwr. Bore Bit-3/4"	6	04-803	04-803	Msny Dr. - 3/16" x4"	8	10-599	28-599	Scoring Knife	18
04-012	105-1/4	Pwr. Bore Bit-1/4"	6	04-804	04-804	Msny Dr. - 1/4" x6"	8	Knife Blades			
04-014	105-1/2	Pwr. Bore Bit-1/2"	6	04-805	04-805	Msny Dr. - 5/16" x6"	8	11-031	28-031	Knife Bl./10-039-(3)	21
04-016	105-3/4	Pwr. Bore Bit-3/4"	6	04-806	04-806	Msny Dr. - 3/8" x6"	8	11-040	11-040	Knife Bl./10-049	21
04-022	103LB-1 1/4	Lock Set Bit - 1 1/4"	8	04-808	04-808	Msny Dr. - 1/2" x6"	8	11-041	11-041	Knife Bl./10-049	21
04-032	103LB-2	Lock Set Bit - 2"	8	04-810	04-810	Msny Dr. - 5/8" x6"	8	11-111	28-111	Knife Bl./10-109A-(3)	21
04-034	103LB-2X	Lk Set Bit 2 1/4"	8	04-812	04-812	Msny Dr. - 3/4" x6"	8	11-112	28-112	Knife Bl./10-109A-(3)	21
04-039	59D	Dowel Jct. & Guides	9	04-918	225-1 1/8	Spade Bit - 1 1/8"	7	11-113	28-113	Knife Bl./10-109A-(3)	21
04-050	600	8 pc. Drill Point Set	8	04-920	225-1 1/4	Spade Bit - 1 1/4"	7	11-114	28-114	Knife Bl./10-109A-(3)	21
04-061	10P	Dr. Pt. 1/16"	8	04-922	225-1 3/8	Spade Bit - 1 3/8"	7	11-115	28-115	Knife Bl./10-109A-(3)	21
04-062	20P	Dr. Pt. 5/64"	8	04-924	225-1 1/2	Spade Bit - 1 1/2"	7	11-300	11-300	Knife Bl./10-300A-(3)	21
04-063	30P	Dr. Pt. 3/32"	8	47-4047	47	Bit Gauge	9	11-301	11-301	Knife Bl./10-301A-(3)	21
04-064	40P	Dr. Pt. 1/8"	8	Router Bits				11-410	11-410	Hobby Knife Blade	20
04-065	50P	Dr. Pt. 1/8"	8	05-601	05-601	1/8" Straight 1 Flute	12	11-411	11-411	Hobby Knife Blade	20
04-066	60P	Dr. Pt. 9/64"	8	05-602	05-602	1/4" Straight 2 Flute	12	11-412	11-412	Hobby Knife Blade	20
04-067	70P	Dr. Pt. 1/32"	8	05-603	05-603	3/8" Straight	12	11-413	11-413	Hobby Knife Blade	20
04-068	80P	Dr. Pt. 11/54"	8	05-604	05-604	1/2" Straight	12	11-491	11-491	1991 Bl. Bk. Pk. 1400	21
04-059	90P	8 pc. Drill Point Set	8	05-605	05-605	5/8" Straight	12	11-492	11-492	1992 Bl. Bk. Pk. 1400	21
04-078	450	4 pc. Drill Point Set	8	05-606	05-606	3/4" Straight	12	11-496	11-496	1996 Bl. Bk. Pk. 1400	21
04-137	137	Countersink - 1/2"	10	05-607	05-607	1/4" Rounding Over	12	11-525	11-525	Blades-Carpet (3)	21
04-139	139	Countersink - 8 Braces	10	05-608	05-608	3/8" Rounding Over	12	11-902	902-5	Hvy. Dty. Bids./09 191	21
04-140	14HS-1/4	Countersink - 1/4"	10	05-609	05-609	1/2" Rounding Over	12	11-910	910-3	Qx Pk. w/8 Bls./09 191	21
04-142	14HS-1/2	Countersink - 1/2"	10	05-610	05-610	1/4" Bead	12	11-911	11-911	8 sides Light Duty (3)	20
04-144	14HS-3/4	Countersink - 3/4"	10	05-611	05-611	3/8" Bead	12	11-921	11-921	8 sides Light Duty (3)	20
04-180	180-18	Extension Bit - 18"	9	05-612	05-612	3/8" Rabbet	12	11-931A	11-931A	11-931 Bl. Bk. Pk. 1400	21
04-186	186	Power Drill Saw - 4"	9	05-613	05-613	5/32" Roman Ogee	12	11-941	11-941	Scoring Knife Blade	20
04-206	225-1/4	Spade Bit - 3/8"	7	05-614	05-614	1/4" Roman Ogee	12	11-942	11-942	Scor. Knt. Bl.-Hvy. Dty.	20
04-210	225-1/4	Spade Bit - 1/2"	7	05-615	05-615	45° Chamfer	12	11-961	11-961	Hook Blade (5)	20
				05-616	05-616	3/8" Cove	12	11-966	11-966	Louneau Blade (5)	20
				05-617	05-617	1/2" Cove	12				
				05-618	05-618	3/8" V-Groove	13	11-991	28-991	100 Bl w/Disp. 1991	21
				05-619	05-619	1/2" Hinge Mortise	13	11-992	28-992	100 Bl w/Disp. 1992	21
				05-620	05-620	1/4" Core Box	13	11-996	28-996	100 Bl w/Disp. 1996	21
				05-621	05-621	1/2" Core Box	13				

MODEL AM-3B

Features

Ranges for industrial applications
Rugged rust band meter
movement
All Range Protection*
Mirror scale
Easy-to-read, three color-coded
scale/switch plates
High-impact, molded case,
fully-insulated
Self-locking, meter-stand handle
All-weather test leads
Recessed glass window reduces
possibility of scratches and
static electricity buildup

*All ranges are fuse-protected or can
withstand application of 220 volts for 1/2
minute



Specifications

Voltage Ranges: AC 0-30/150/300/750 (10,000 ohms/V)
DC 0-3/30/150/300 (100,000 ohms/V). 15KVAC and
15KVDC ranges can be added through use of HV-2* High
Voltage Probe and HVR-3* or HVR-3D* resistor.
*Not supplied.

Resistance Ranges: 0-500 ohms (5 ohms midscale)
0-5,000 ohms (50 ohms midscale)
0-50,000 ohms (500 ohms midscale)
0-5 megohms (50,000 ohms midscale)

Current Ranges: DC 0-10uA (see note 1);
0-15/150uA at 300mV; 0-1.5/150mA at 300mV;
AC 0-5/25/100/250 Amperes* (see note 2); 0-0.5/2.5/10
Amperes* (see note 3); 0-50/100/200 Amperes* (see
note 4); 0-1250/5000/6000 Amperes* (see note 5);
0-10/50/250/500 Amperes* (see note 6); 0-1/5 Amperes*
(see note 7); 0-100/1200 Amperes* (see note 8);
0-2500/6000 Amperes* (see note 9)

*These ranges obtained by using the appropriate tran-
ducer(s) available separately as an accessory

Millivolt Ranges: 0-75/750/1500mVDC at 10uA
0-300mVDC; Set range switch to 15uA position, take
readings on 0-30 scale, multiply readings by 10.

Temperature Range:
Low -10°F to +250°F with temperature probe RBT-11B or
RBT-12B or RBT-13B, available separately as accessory.
Maximum temperature for RBT-13B is 150°F. High +70°F to
+1200°F with temperature probe TC-3 available separately
as an accessory. For non-corrosive applications.

Accuracy: DC $\pm 3\%$ F.S.; VAC $\pm 4\%$ F.S.; Amperes AC $\pm 5\%$ F.S.
based on sinusoidal waveform; Ohmmeter $\pm 3\%$ of Arc;
Low Temperature $\pm 3\%$ of Arc; High Temperature $\pm 3\%$ of
F.S.*

*Including Temperature probe

Ohmmeter Battery: 2 "C" batteries in parallel (not supplied)

Fuses: 1 BAG361, 1 Amp Fast Blow

1 3AG312, 0.1 Amp Fast Blow

Size: 5 1/2" w x 7 1/2" h x 3 1/4" d (13.34 cm x 19.1 cm x 8.26 cm)

Instrument Weight: 2 1/4 lbs (1.02Kg)

Supplied with MTL-1 All-Weather Test Leads and
MTC-2 Alligator Clip Adaptors.

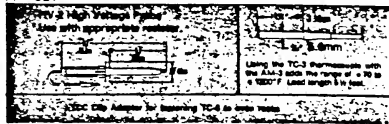
Note 1 Set range switch to 750mV position, take readings on 0-30 scale, divide
reading by 3. Note 2 Use current transducer A603 (60Hz) or A653 (50Hz). Note 3 Use A603 or A653 in conjunction with Energizer A47-L. Note 4 Use A603 or
A653 in conjunction with Deca Trans A50-1. Note 5 Use A603 or A653
in conjunction with Amprobe CT-50-1 CT-50-2 up to 3600 amperes. Note 6 Use
current transducer A703 (60Hz) or A753 (50Hz). Note 7 Use A703 in conjunction
with Energizer A47-L. Note 8 Use A703 or A753 in conjunction with Deca
Trans A50-1. Note 9 Use A703 or A753 in conjunction with Amprobe CT-50-1
CT-50-2 up to 3600 amperes

Accessories & Replacements

Temperature Probes

The range -10°F to +250°F is obtained by using one of the
temperature probes RBT-11B, RBT-12B or RBT-13B (all for
non-corrosive applications only) which plug directly into the
AM-3B. (see page 18 for probe illustrations, same as
RBT-11/12/13). Lead length 12 feet (3.65m). The range of
70°F to +1200°F is obtained by using TC-3 Thermocouple.
Length 5 1/2 ft. (1.67m).

Note: For earlier model AM-3, use temperature probe
RBT-11, RBT-12, RBT-13. These probes will not fit Model
AM-3B.



*For use with AM-3B and AM-1A (page 10).

Description	Model
High voltage probe (15KV). Use with HVR-3 or 3D	HV-2
Resistor for 15,000 VAC range. Use with HV-2	HVR-3
Resistor for 15,000 VDC range. Use with HV-2	HVR-3D
Replacement probe tip for HV-2 probe	HVT
All-Weather Test Leads	MTL-1
Alligator Clip Adaptors (2)	MTC-2
Ohmmeter Fuse 1 Amp Fast Blow	BAG361
Fuse 0.1 Amp Fast Blow	3AG312
Immersion Temperature Probe	RBT-11B
Universal Temperature Probe	RBT-12B
Vented Air Temperature Probe	RBT-13B

CURRENT TRANSDUCERS

The A603 (60 Hz) or the
A653 (50 Hz) current tran-
ducer which plugs directly
into the AM-3B adds four
AC current ranges 0-5/25/
100/250 amperes.

The A703 (60 Hz) or the
A753 (50 Hz) current tran-
ducer which plugs directly
into the AM-3B adds four
current ranges 0-10/50/
100/250 amperes.



CARRYING CASES

A choice of two rugged, overready cases.
The MM-3 provides storage space for the
AM-3B and one or two accessories (A703
or smaller)

The MM-4 is a deluxe, two compartment
case that accommodates the AM-3B in
the front compartment and has space in
the rear compartment to conveniently
store the test leads, a temperature probe
(RBT-11B/RBT-12B/RBT-13B), the TC-3
thermocouple and the A603 and A703
current transducers.



MODEL TAM-3B

INDUSTRIAL MULTIMETER TEST MASTERKIT

This professional kit will satisfy the
majority of your daily testing



Measure AC amps and volts;
DC micro- and milli-amps; DC
millivolts and volts; Resis-
tance; Temperature

Contains AM-3B Multi-
meter, A603* Clamp-on
Current Transducer, RBT-
12B Universal Tempera-
ture Probe and TC-3
Thermo-couple in the de-
luxe MM-4 Carrying Case. *A653 for 50Hz. (Specify)

The TAM-3B has same Voltage, Resistance, Millivolt, DC
Current Ranges as Model AM-3B, plus:
AC 0-5/25/100/250 Amperes (with A603 60Hz or A653 50 Hz)
Temperature ranges: -10°F to +250°F (with RBT-12B).
+70°F to +1200°F (with TC-3)

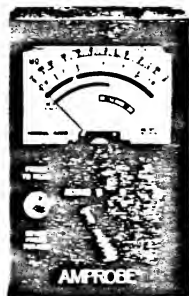
Poor insulation can be a dangerous shock hazard to personnel as well as the cause of equipment breakdowns. Therefore, anyone responsible for installing, servicing or maintaining electrically operated equipment must be concerned about insulation resistance. As part of an Insulation Resistance Test Program, an AMPROBE Megohmmeter can help you cut unscheduled, equipment downtime and reduce shock hazards.

MODEL AMB-1 (Battery Powered)

The AMB-1 Megohmmeter is battery-powered which makes it a very convenient unit to use especially for resistance measurements of long duration. The Model AMB-1 is supplied complete with an ever-ready carrying case, test leads, adaptor clips, fuse and a comprehensive, 20-page application manual.

Features

- Battery-powered Megohm range
- Sensitive ohm range
- Live circuit AC/DC voltage test
- Battery OK test
- Mirror Scale
- 3-color scale plate
- Fuse protected
- Automatic discharge of equipment capacitance for safe removal of test leads
- Leak-proof battery compartment



- Battery-saving "Press-to-Read" button
- Rugged, taut-band meter movement
- Solid state circuitry
- High-impact housing
- Non-destructive

Specifications

Ranges: 0-100 Megohms (2.5 Megohms midscale)
 Test Voltage 500VDC
 0-100 ohms (4 ohms midscale)
 Open Circuit Voltage 300mV
 0-600VAC/VDC Test Band
 Battery OK Test Band

Accuracy: Megohm range
 0.1 to 10 Megohms $\pm 5\%$ of reading
 Over 10 Megohms $\pm 10\%$ of reading
 Ohmmeter range $\pm 3\%$ of arc

Power: 8 AA Batteries (not supplied)

Battery Drain: 50mA @ 1 megohm. This translates into over 200 test cycles - one minute on measuring 1 megohm and four minutes off.

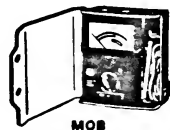
Fuse: 8AG-361, 1 Amp Littelfuse Fast blow (1 spare supplied)

Size: 4.09" x 6.25" x 2.81" (10.4cm x 15.9cm x 7.14cm)

Instrument Weight: 1 lb. 3 oz. (540g) without batteries



Ever-ready carrying case MOC has an adjustable shoulder strap. Test Lead Case MOL attaches to MOC case.

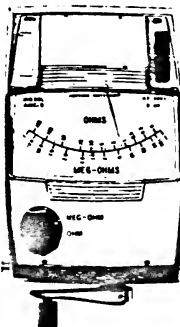


Ever-ready Carrying Case Model MOB has adjustable shoulder strap. Lid fastens to back of case while instrument is in use.

MODELS AMC-2, 3 and 4 (Hand Cranked)

The instrument's test voltage is obtained by means of a hand-cranked, constant voltage generator. This means it does not require any other power supply and is, therefore, always ready for use. This unit's sensitive ohmmeter range makes it especially well suited for measuring the resistance of motor windings and other low resistances. Guard Terminal eliminates effect of any surface leakage that may influence reading.

Supplied with a comprehensive 20 page, application manual, a three-piece test lead set (2 clip type and 1 probe type, so you may select the pair that best meets the test requirements) and dual carrying cases for the instrument and test leads.



Features

- Megohm range(s)
- Sensitive ohm range
- Guard terminal
- Light and smooth operating crank

- Rugged cross-coil movement
- High-impact housing
- Spring-loaded terminal connections
- Constant voltage generator

Specifications

MODEL	RANGES	TEST VOLTAGE	ACCURACY
AMC-2	0-100 MΩ (10 MΩ midscale)	500VDC	25% of reading from 1 to 50MΩ; 210% of reading at all other points
AMC-3	0-200 ohms (10Ω midscale)	8VDC	210% of reading
AMC-4	0-500 MΩ (50 MΩ midscale)	1000VDC	25% of reading from 5 to 200MΩ; 210% of reading at all other points
	0-200 ohms (10Ω midscale)	8VDC	210% of reading
	0-100 MΩ (10 MΩ midscale)	500VDC	25% of reading from 1 to 50MΩ; 210% of reading at all other points
	0-500 MΩ (50 MΩ midscale)	1000VDC	25% of reading from 5 to 100MΩ; 210% of reading at all other points
	0-200 ohms (10Ω midscale)	8VDC	210% of reading

Size: 4" x 3.625" x 7" (10.2cm x 9.2cm x 17.8cm)

Instrument Weight: 2 lbs 8 oz (1.13Kg)

Accessories and Replacements

Description	Model No.
Carrying Case for AMB-1	MOB
Carrying case for AMC-2, 3 and 4 instrument	MOC
Carrying case for AMC-2, 3 and 4 leads	MOL
Test leads for AMC-2, 3 and 4 (set of 3)	MTL-3
Test Leads for AMB-1	MTL-4
Adaptor Clips for MTL-4	MTC-2
"AA" Batteries for AMB-1 (package of 4)	918
Fuse for AMB-1	1 Amp Fast Blow
	8AG361

*Two packages required
 Each instrument is supplied with carrying case, test leads and Applications Manual

Applications Manual Makes It Easy

The AMPROBE Megohmmeters are supplied with a comprehensive, illustrated 20 page applications manual that explains how to use a megohmmeter. Even if you've never used a megohmmeter before, this manual will help you get started.

AMPROBE Megohmmeters are made in Japan to Amprobe instrument design and quality specifications.

Amprobe Rotary-Scale Clamp-On Instruments

TEST MASTER KITS

AMPROBE Test Master kits are professional test instrument packages designed to provide you with the measuring capability necessary to handle the majority of your routine electrical testing needs. Choose from four different models to meet your own particular testing needs. Deluxe carrying cases keep instrument and accessories neat and all in one place.

MODEL TM-63

RS-3 Instrument
VLK411R Extendo Leads for faster, easier voltage testing.
Deluxe "A" case provides easy access to instrument and quick inventory of accessories.

A-47L Energizer for current readings as low as 0-0.6 amps.
Effectively "splits" two-conductor line cords.

VRC-320 Alligator clip adaptor.
Also available without instrument. Order Model TM-60.



MODEL TM-43A

A47-L Energizer for current readings as low as 0-6 amps.
Permits readings on equipment with 2-conductor line cord.

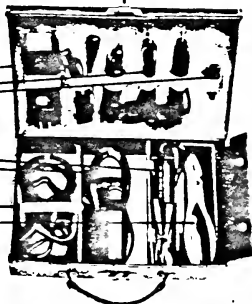
VLK411R Extendo Leads for faster, easier voltage testing
VRC-320 Alligator clip adaptor

PSA-1 Phase Sequence Adaptor helps determine phase sequence of 3-phase circuits.

RS-3 Instrument
ASO-1 Decatran® expands current measuring capability by 10

times up to 1200 amps intermittent duty, 600 amps continuous.

Space for your own hand tools
Also available without phase sequence adaptor. Order Model TM-33A.



Amprobe® Voltprobe® Voltage Testers

Features

Checks ten AC/DC voltage levels
Model VT-124 also indicates 24/48 VAC
Lightweight. Fits in a shirt pocket
Lighted windows indicate voltage level.

Easy to read in dimly lighted areas

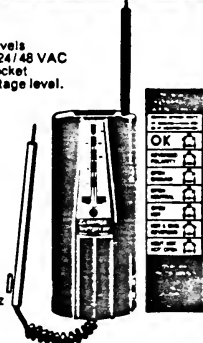
Two models: VT-100 and VT-124

Replaceable probe tips
Coiled lead cord extends up to 50"

Test Button distinguishes readings from those due to distributed capacitance or high resistance leakage

Receptacle check chart on back of tester lets you check out 115VAC - grounded convenience outlets

Frequency Range: 25 to 800Hz
Safer operation. No additional resistors or fuses required



Specifications

Model VT-100 Ranges
115/220/277/440/550VAC
115/220/400/600/750VDC

Model VT-124 Ranges
24/48/115/220/277/440/550VAC
115/220/400/600/750VDC

Size: 8 1/16" x 2 1/2" x 15/16"

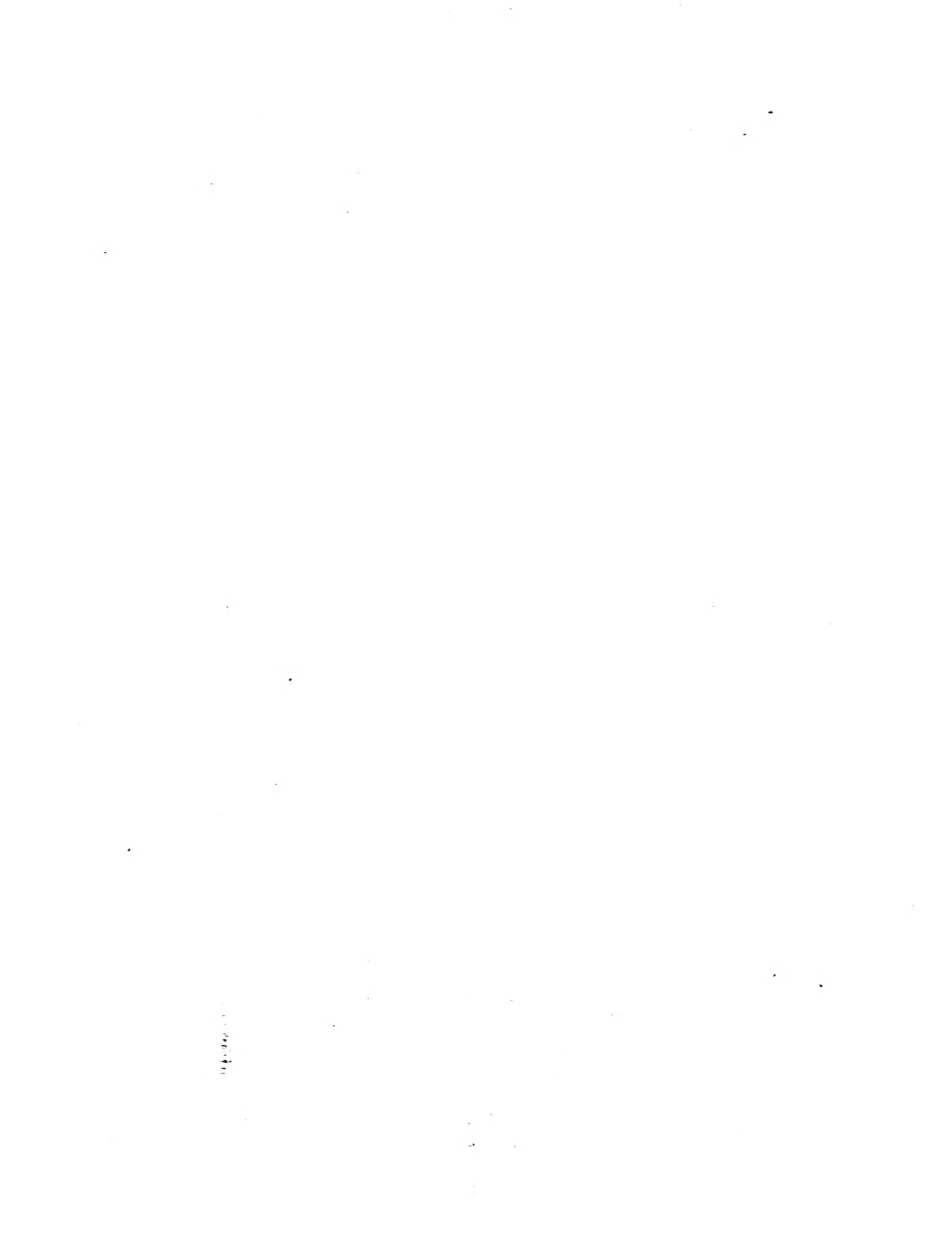
Tester Weight: 5 ounces (142 grams)

Accessories and Replacements

Description	Model
Carrying Case for VT-100, VT-124	VC
Receptacle Check Chart (Pkg of 2)	LVT
Replacement probe tips (Pkg of 4)	VPT

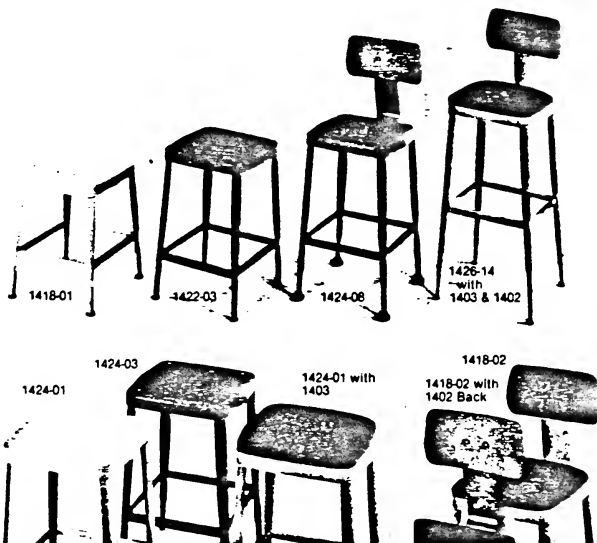


VC Case






Equipto designs seating systems that combine safety and durability with comfort and style. Choose from 64 models—all with advanced construction and engineering—that serve a multitude of purposes and harmonize with any working atmosphere.

Equipto stools feature a variety of sizes and styles: fixed or adjustable heights, with or without steel back rests, pressed wood or steel seats. Choose steel glides for easy movement, rubber feet to eliminate slippage—or both. All feature welded construction for strong, rugged wear. For ultimate comfort, Equipto offers stools with upholstered backs and seats. Generous poly-foam cushions (1½" thick) handsomely outfitted in black vinyl are mounted on plywood bases and affixed to steel foundations. Stool backs adjust up or down for individual comfort.



Equipto stools without backs are available in three convenient seat types: steel, pressed wood or upholstered cushion.

Add more comfort to steel-back stools with upholstered backs.

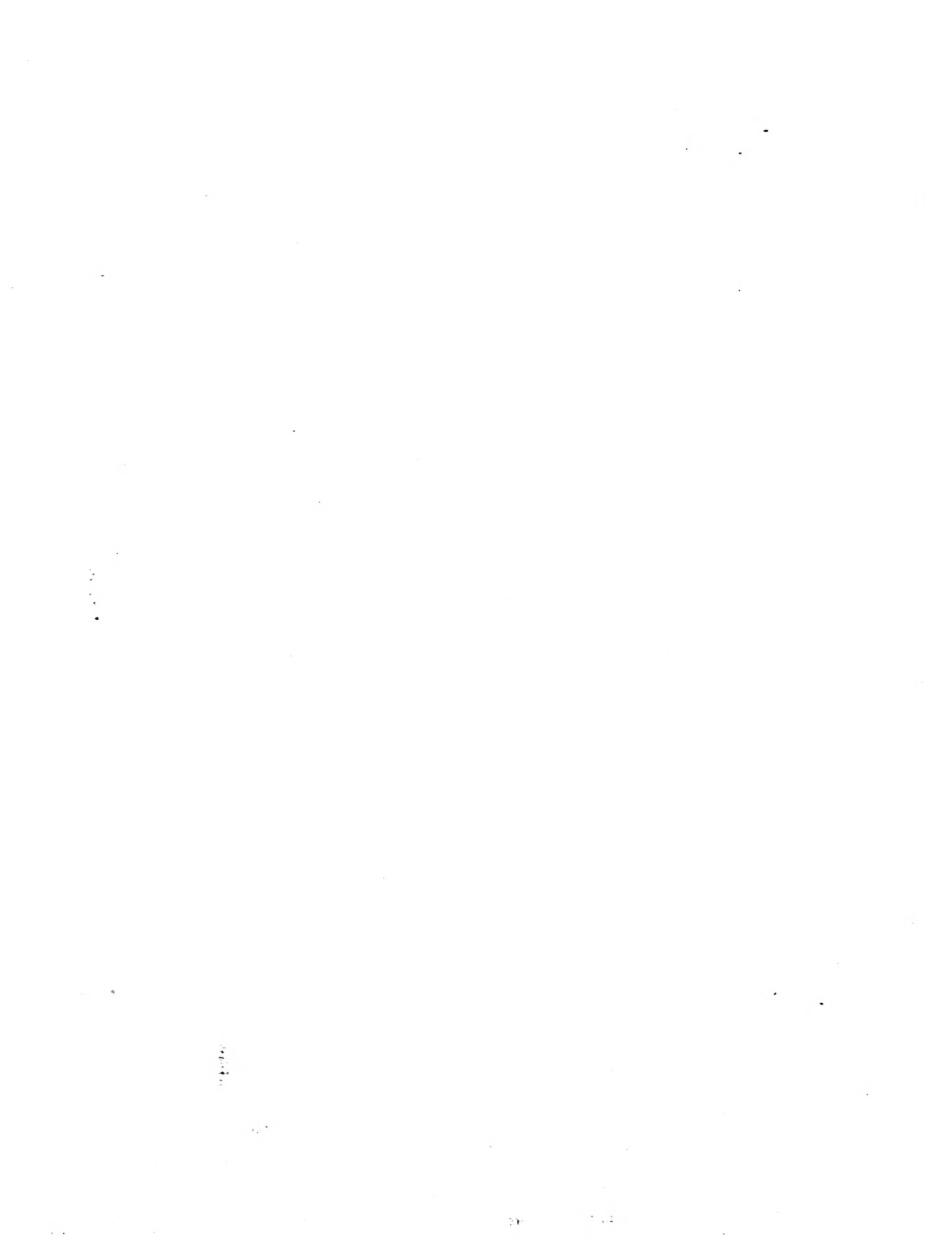
Feet Style	Height	Steel Seat	Pressed Wood Seat	Steel Back and Seat	Steel Back and Pressed Wood Seat
	18"	1418-01	1418-03	1418-02	1418-04
	22"	1422-01	1422-03	1422-02	1422-04
	24"	1424-01	1424-03	1424-02	1424-04
	26"	1426-01	1426-03	1426-02	1426-04
	18"	1418-05	1418-07	1418-06	1418-08
	22"	1422-05	1422-07	1422-06	1422-08
	24"	1424-05	1424-07	1424-06	1424-08
	26"	1426-05	1426-07	1426-06	1426-08
	18"	1418-09	1418-11	1418-10	1418-12
	22"	1422-09	1422-11	1422-10	1422-12
	24"	1424-09	1424-11	1424-10	1424-12
	26"	1426-09	1426-11	1426-10	1426-12
Adjusts					
Leg extension with steel glide Increase height up to 3" in 1" increments.	18 to 21"	1418-13	1418-15	1418-14	1418-16
	22 to 25"	1422-13	1422-15	1422-14	1422-16
	24 to 27"	1424-13	1424-15	1424-14	1424-16
	26 to 29"	1426-13	1426-15	1426-14	1426-16

Accessories

Upholstered Back only (7"x13½"x1½" thick polyfoam)	1402
Upholstered Seat only (14"x14"x1½" thick polyfoam)	1403
4 rubber feet, attach over standard glide	9643-4
4 swivel casters (for stools without leg extensions)	11812-4
4 rubber feet with steel glide	9644-4
4 leg extensions with glide	9645-4

Swivel casters provide smooth mobility. Leg extensions with locking screw add up to 3" extra height (1" increments), accept rubber foot or rubber foot with steel glide.

Stock color office gray. See page 3 for other colors.

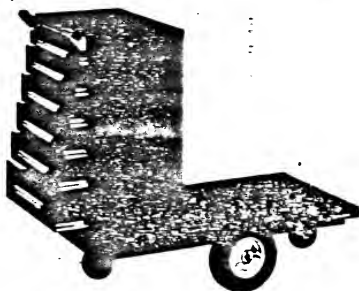
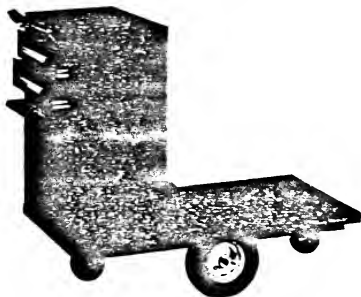


Versa-Cart® Tool Carts

Workday workhorses—plus workbench.

0-20

(Kennedy Kennedy Kennedy Kennedy Kennedy Kennedy Kennedy Kennedy Kennedy Kennedy)



2-Drawer Versa-Cart® Tool Cart/43" Model 432

Includes 2-drawer cabinet and platform, two 10" ball bearing steel rim wheels with solid rubber tires, and two 5" swivel casters. Choice of brown or red wrinkle finish.

	Width	Depth	Height	Net Wt.
432	20 ¹³ / ₁₆ "	43 ¹ / ₈ "	35"	108 lbs.
2 Drawers	16 ⁹ / ₁₆ "	12 ³ / ₁₆ "	3 ⁷ / ₈ "	
1 Compartment	20 ⁷ / ₁₆ "	12 ³ / ₄ "	16 ¹ / ₂ "	

6-Drawer Versa-Cart® Tool Cart/43" Model 436

Includes 6-drawer cabinet and platform, two 10" ball bearing steel rim wheels with solid rubber tires, and two 5" swivel casters. Choice of brown or red wrinkle finish.

	Width	Depth	Height	Net Wt.
436	20 ¹³ / ₁₆ "	43 ¹ / ₈ "	35"	130 lbs.
1 Drawer	16 ⁹ / ₁₆ "	12 ³ / ₁₆ "	1 ¹³ / ₁₆ "	
4 Drawers	16 ⁹ / ₁₆ "	12 ³ / ₁₆ "	3 ⁷ / ₈ "	
1 Drawer	16 ⁹ / ₁₆ "	12 ³ / ₁₆ "	5 ¹ / ₂ "	

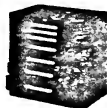
Pick your wheel and caster arrangement.



MAXIMUM
MANEUVER-
ABILITY

MAXIMUM
LATERAL
STABILITY

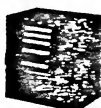
Rolls easily
over rough
floors.



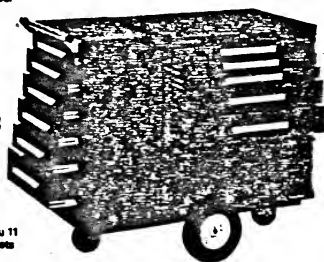
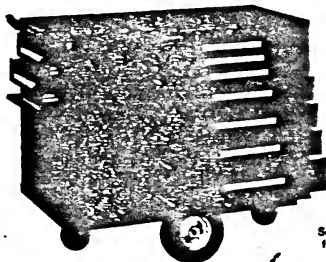
297
page 10

Eliminate return trips
to tool crib or maintenance
department. Keeps a 1/2-ton
of tools and spare parts at
your fingertips.

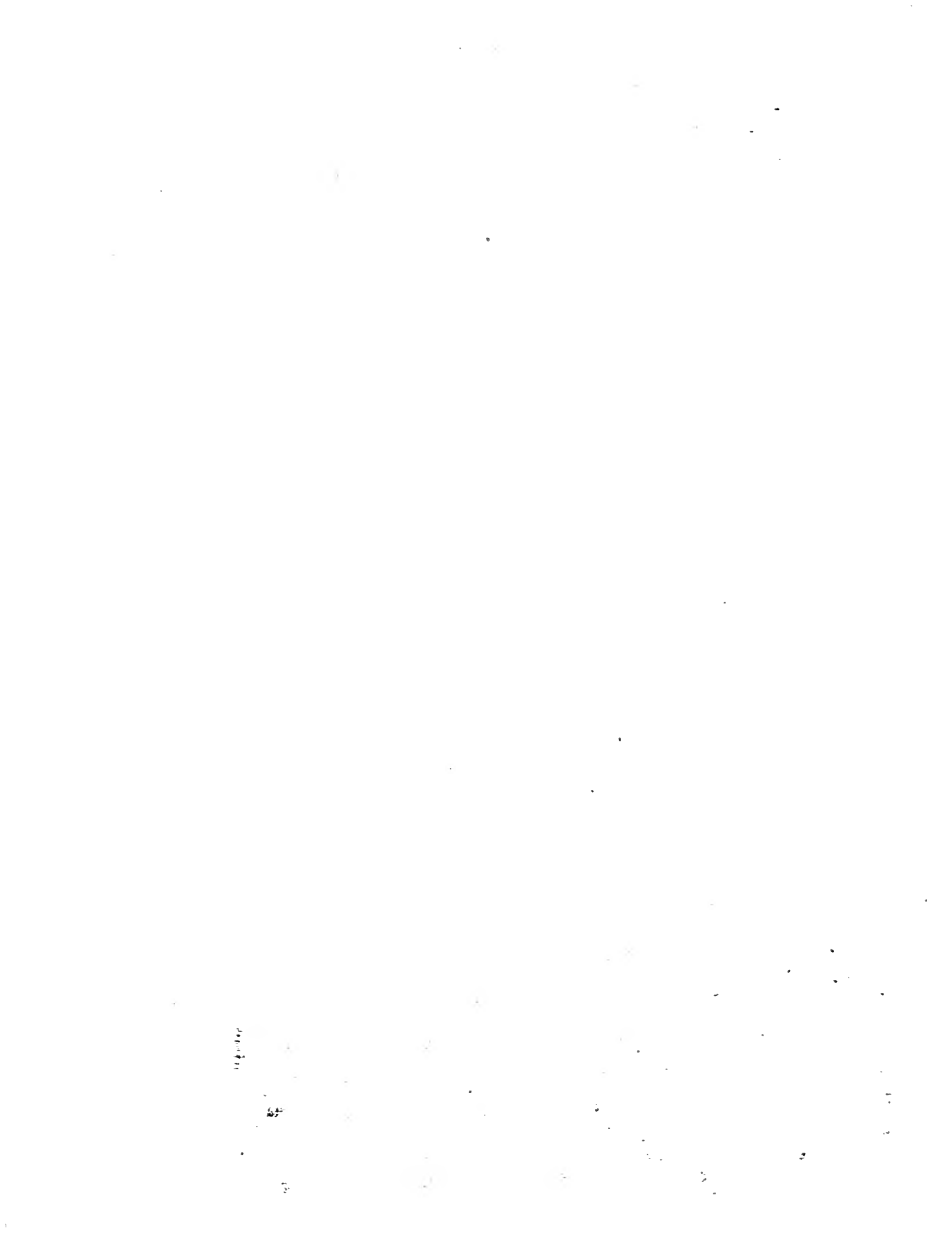
436



295
page 10



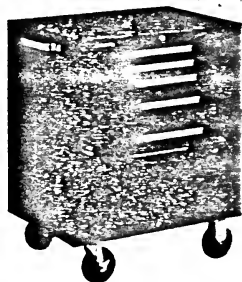
See pages 8 thru 11
for other cabinets
offered.



Roller Cabinets

Big capacity—workday roll arounds.

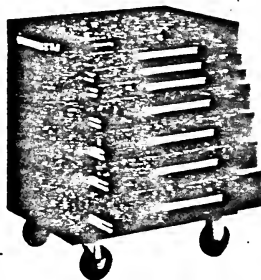
Kennedy Kennedy Kennedy Kennedy Kennedy Kennedy Kennedy Kennedy Kennedy Kennedy Kennedy



5-Drawer Roller Cabinet/29" Plus compartment space Model 295

Keeps hand tools, power tools and maintenance-repair supplies organized and handy. Swing-down panel conceals, locks bottom compartment. Includes side handle, four 5" casters, 4 drawer dividers, cylinder lock, 2 keys. Choice of brown or red wrinkle finish.

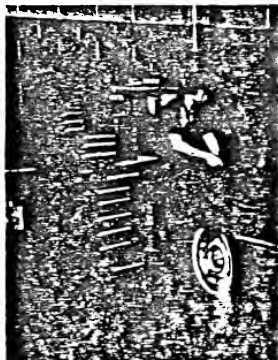
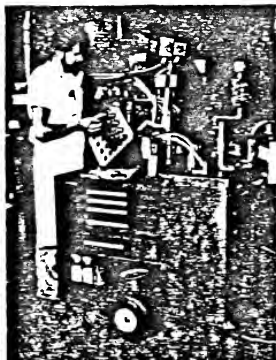
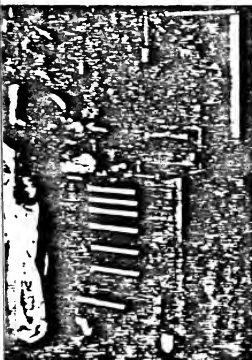
	Width	Depth	Height	Net Wt.
295	29"	20"	35 1/4"	122 lbs.
3 Drawers	25"	18 1/2"	1 13/16"	
2 Drawers	25"	18 1/2"	3 7/8"	
1 Compartment	26 1/4"	19 3/4"	11 1/4"	

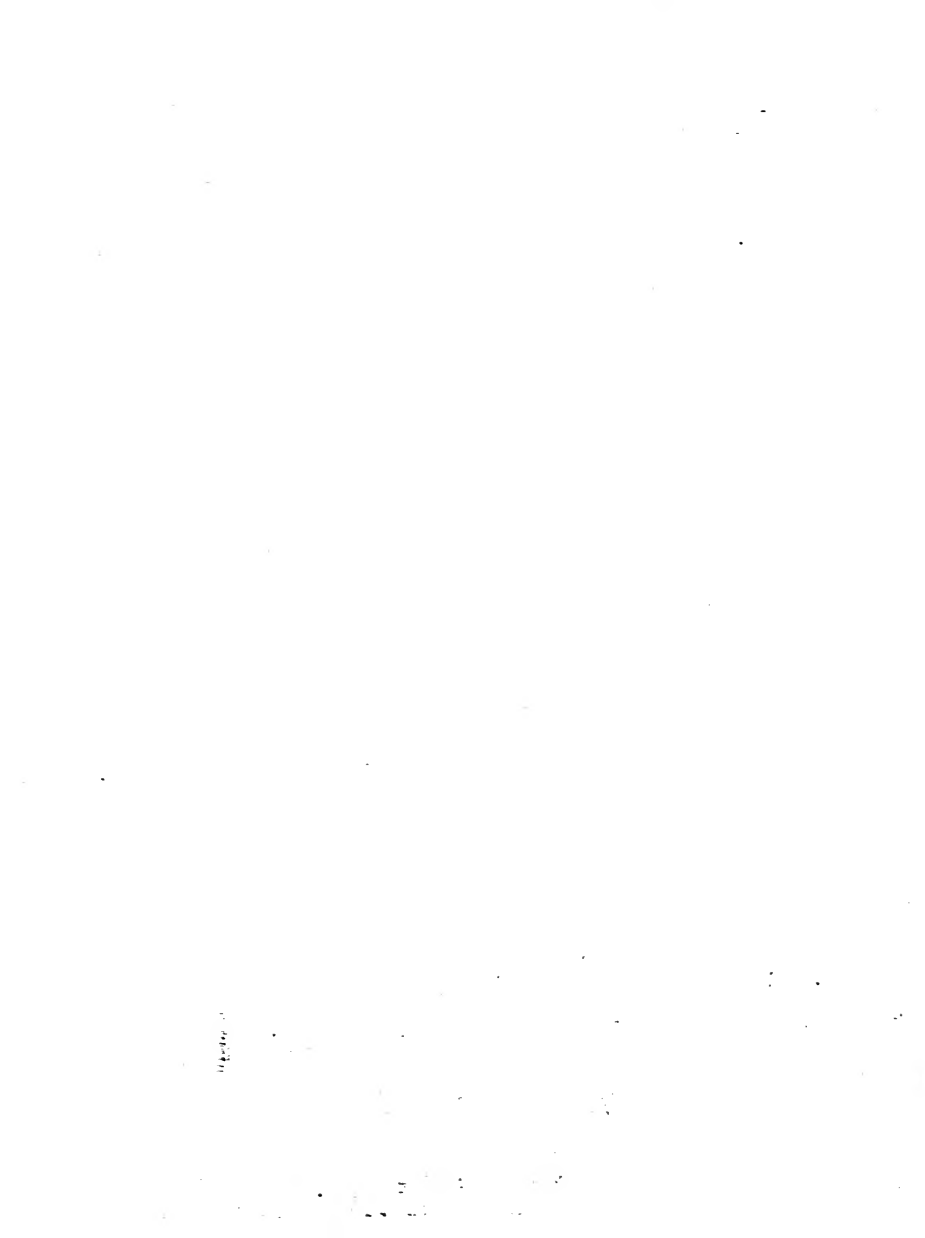


7-Drawer Roller Cabinet/29" Model 297

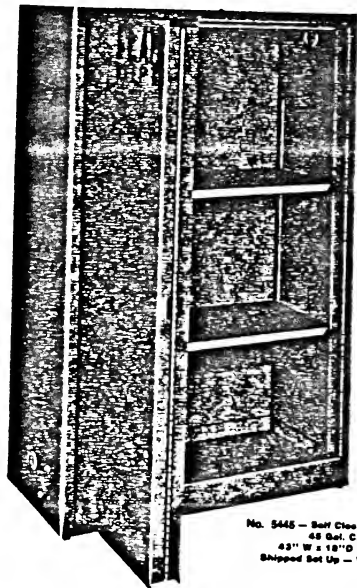
Plenty of drawer space to keep lots of tools well-organized, easily accessible and close at hand. Includes side handle, four 5" casters, 4 drawer dividers, cylinder lock and 2 keys. Choice of brown or red wrinkle finish.

	Width	Depth	Height	Net Wt.
297	29"	20"	35 1/4"	142 lbs.
3 Drawers	25"	18 1/2"	1 13/16"	
3 Drawers	25"	18 1/2"	3 7/8"	
1 Drawer	25"	18 1/2"	5 1/8"	





FLAMMABLE LIQUID STORAGE CABINETS WITH SELF-CLOSING DOORS



No. 5445 — Self Closing Door Model
45 Gal. Cap.
43" W x 18" D x 68 1/2" H
Shipped Set Up — Wt. 301 lbs.

New! Lyon Flammable Liquid Storage Cabinets are available with self-closing doors for additional safety in the storage of flammable liquids. Cabinets feature welded, riveted and bolted construction for outstanding strength and durability. Finish is durable safety yellow baked-on enamel with highly conspicuous, bright red "Flammable Liquid — Keep Fire Away" decal across both doors. Cabinets comply with National Fire Protection Association's Combustible Liquids Code No. 30, and also meet current O.S.H.A. safety requirements.

MANUAL LATCH... PLUS FUSIBLE LINK

Folding doors open easily to the left side of cabinet. Latch at left end of track engages as door reaches fully open position. Door will close automatically when latch is released manually... or if ambient temperature should reach 160°F. The key to automatic operation is a spring-loaded fusible link which melts at 160°F, releasing the latching mechanism. This operation is fully automatic and does not require personnel in attendance.

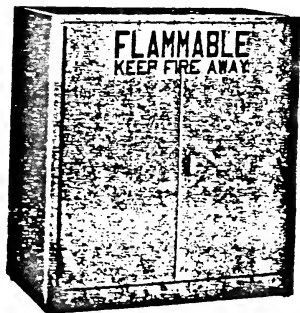
SPRING-LOADED FULL LENGTH HINGE

When door is latched in the fully open position a tension of 16 pounds is developed by the spring-loaded full length hinge. When latch is tripped manually or by the melting of the fusible link, the spring tension is released and it automatically closes the door.

NOW! SELF CLOSING DOOR MODELS FROM WHICH TO CHOOSE

Self-closing door models available in 45 and 30 gallon capacity sizes (based on storage of 5-gallon containers): • 45 Gallon cap model has 2 galvanized steel shelves adjustable on 1/2" centers to 11 1/2" from top — 15 1/2" from bottom • 30 Gallon cap model has one shelf adjustable to 13" from top — 17 1/2" from bottom • Double wall construction throughout with 1 1/2" insulating airspace between inner and outer

walls • All shelves (inside and outside) are fabricated of 18 ga. steel • Screened flame arrestor vent on each side of cabinet is threaded to accept 2" standard pipe — solid steel vent plugs included • Positive electrical grounding attachment on each side • 2" deep pan type bottom • Zinc plated leveling feet on all corners adjust to 1 1/2" • Doors equipped with full length hinge, 3-point latch and built-in flat key lock.



SELF-CLOSING DOORS 30 GALLON CAPACITY

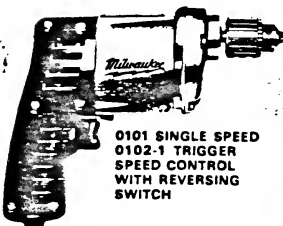
30 Gallon capacity model (based on storage of 5-gallon cans) has same general specifications and construction details as 45 gal. model. Overall size 43" wide, 18" deep, 44 1/2" high. Shipped set up — Wt. 258.5 lbs.

LYON FLAMMABLE LIQUID STORAGE CABINETS COMPLY WITH NATIONAL FIRE PROTECTION ASSOCIATION 5 COMBUSTIBLE LIQUIDS CODE NO. 30 AND MEET CURRENT O.S.H.A. SAFETY REQUIREMENTS

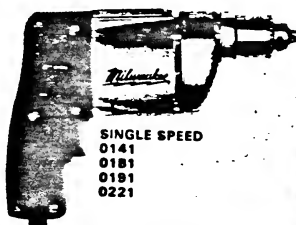
No. 5441 — Self-Closing Model — 30 gal. cap.
No. 5449 — Extra Shell (fits all 45 and 30 gal. cap. models)

HEAVY-DUTY HOLE-SHOOTERS ALL BALL AND ROLLER BEARINGS

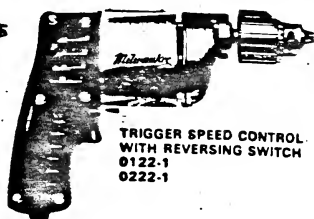
0-23



**0101 SINGLE SPEED
0102-1 TRIGGER
SPEED CONTROL
WITH REVERSING
SWITCH**



**SINGLE SPEED
0141
0181
0191
0221**



**TRIGGER SPEED CONTROL
WITH REVERSING SWITCH
0122-1
0222-1**

CATALOG NUMBER	CAPACITY (INCHES) IN STEEL	VOLTS	AMPS	SPEED (NO. LOAD) RPM	GEAR TRAIN	SPINDLE DIAMETER AND THREAD	REPLACEMENT CHUCK CATALOG NO. (CHUCK KEY INCLUDED)	REPLACEMENT CHUCK KEY CATALOG NO.	LENGTH (INS.)	NET WT. (LBS.)	SHIP WT. (LBS.)
0101*	1/4	120 AC	3	2500	SINGLE	3/8"-24	48-66-0260	48-66-3200	8-3/8	3-1/2	6
0102-1 REV.*	1/4	120 AC ONLY	3	0-2500	SINGLE	#1 J.T.*	48-66-0230	48-66-3200	8-3/8	3-1/2	8
0122-1 REV.	1/4	120 AC ONLY	3.3	0-2000	DOUBLE	#1 J.T.*	48-66-0230	48-66-3200	8-3/4	3-3/4	8
0141	1/4	120 AC	3.3	3500	DOUBLE	3/8"-24	48-66-0260	48-66-3200	8-3/4	3-3/4	6
0181	1/4	120 AC	3.3	2500	DOUBLE	3/8"-24	48-66-0260	48-66-3200	8-3/4	3-3/4	8
0191*	1/4	120 AC	3.3	1700	DOUBLE	3/8"-24	48-66-0260	48-66-3200	8-3/4	3-3/4	6
0221*	3/8	120 AC	3.3	650	DOUBLE	3/8"-24	48-66-0800	48-66-3080	9-1/2	4	7
0222-1 REV.*	3/8	120 AC ONLY	3.3	0-1000	DOUBLE	#2 J.T.*	48-66-0240	48-66-3080	8-1/2	4	7

* Available in 240 Volts AC Only. Add .3 after Catalog Number when ordering. See price sheet.
* Available in 240 Volts AC. Add .2 after Catalog Number when ordering. See price sheet.

© Jacobs Taper Spindle

TRIGGER SPEED CONTROL REVERSING



Squeeze the trigger for the exact speed you need. The further the trigger is depressed, the faster the speed. REVERSING lever located above trigger lets you change direction with a simple flick of trigger finger.

MILWAUKEE ELECTRIC TOOL CORPORATION CERTIFIES THAT THESE TOOLS COMPLY WITH U.S.A. REQUIREMENTS

SHEAR ACCESSORIES SCISSORS HEAD SHEAR ASSEMBLY NO. 48-08-0525



Ideal for cutting a wide range of pliable sheet materials such as carpeting, carpet underlay, foam rubber, knoleum, vinyl, etc. Use with MILWAUKEE 1/4" HOLE-SHOOTER Model 0181. See page 80 for complete SHEAR specifications.



SWIVEL HEAD SHEAR ASSEMBLY NO. 48-08-0500

Use with MILWAUKEE 1/4" HOLE-SHOOTER Model 0181. See page 80 for complete SHEAR specifications.

SCREW-SHOOTER ACCESSORIES SCREWDRIVER BIT SET NO. 48-30-0100

Included in the set is 1 each of:

- NO. 48-30-1500
#3 Phillips Bit 1/4" Hex
- NO. 48-30-1510
#1 Phillips Bit 1/4" Hex
- NO. 48-30-1520
#2 Phillips Bit 1/4" Hex
- NO. 48-30-2600
Bit and Finder 6F-8R 1/4" Hex
- NO. 48-30-2625
Bit and Finder 8F-10R 1/4" Hex
- NO. 48-30-2650
Bit and Finder 10F-12R 1/4" Hex
- NO. 48-32-2050
1/4" Sq. X 2" Socket Driver

For use with Trigger Speed Control Drills Nos. 0102-1, 0104-1, 0122-1, 0222-1, 0224-1 and 0234-1.



Bit and Finder 3-1/2" long with 1/4" hex shank for slotted head screws.

SCREW SIZE	CATALOG NUMBER
6F-8R	48-30-2600
8F-10R	48-30-2625
10F-12R	48-30-2650
12F-14R	48-30-2675
14F-16R	48-30-2700



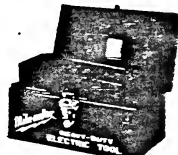
2" long Bits with 1/4" hex shanks for driving #2 and #3 Phillips screws.

Phillips No. 2	48-30-1520
Phillips No. 3	48-30-1500

TOOL HOLSTER NO. 49-17-0200 FOR PISTOL DRILLS AND SCREW- SHOOTERS



STEEL CARRYING CASE NO. 48-55-0710 FOR PISTOL DRILLS AND SCREW-SHOOTERS OVERALL SIZE 13" LONG, 6" HIGH, 8-1/2" WIDE



RUBBER FLEX KEY HOLDER



NO. 48-66-4040 FOR KEY 48-66-3080
NO. 48-66-4080 FOR KEY 48-66-3200

PLUG ADAPTER NO. 48-03-0010



TYPE "A" GREASE
For all Drills except Model Nos. 0222-1 and 0222-3.

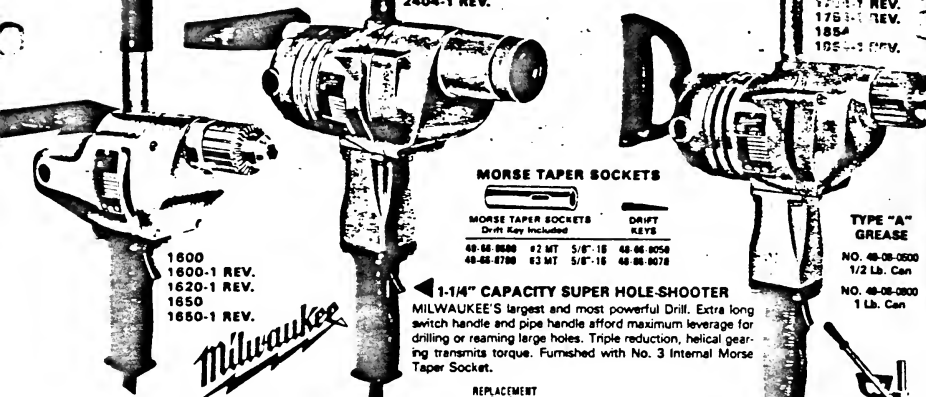
NO. 49-08-0500 1/2 LB. CAN
NO. 49-08-0800 1 LB. CAN

TYPE "C" GREASE
For Model Nos. 0222-1 and 0222-3.
NO. 49-08-1000 1 LB. CAN

Milwaukee

2404-1 REV.

1704-1 REV.
1754-1 REV.
1854
1854-1 REV.



MORSE TAPER SOCKETS

MORSE TAPER SOCKETS		DRIFT KEYS	
Drift Key Included		Drift Key	
48-66-0060	42 MT 5/8"-18	48-66-0058	
48-66-0700	43 MT 5/8"-18	48-66-0078	

1-1/4" CAPACITY SUPER HOLE-SHOOTER

MILWAUKEE'S largest and most powerful Drill. Extra long switch handle and pipe handle afford maximum leverage for drilling or reaming large holes. Triple reduction, helical gearing transmits torque. Furnished with No. 3 Internal Morse Taper Socket.

TYPE "A" GREASE

NO. 48-08-0500
1/2 Lb. Can
NO. 48-08-0800
1 Lb. Can

CATALOG NUMBER	CAPACITY (INCHES) IN STEEL	VOLTS	AMPS	SPEED (NO LOAD) RPM	GEAR TRAIN	SPINDLE DIAMETER AND THREAD	REPLACEMENT CHUCK CATALOG NO. (CHUCK KEY INCLUDED)	REPLACEMENT CHUCK KEY CATALOG NO.	LENGTH (IN)	NET WT. (LBS.)	SHIPPING WT. (LBS.)
1600	1/2	120	8	600	Dbl.	1/2"-20	48-66-1260	48-66-3260	12-1/4	8-1/2	13
1600-1 REV.★	1/2	120	8	600	Dbl.	5/8"-18	48-66-1360	48-66-3260	12-1/4	8-1/2	13
1620-1 REV.	3/8 w/1/2 chuck	120	8	1900	Dbl.	5/8"-18	48-66-1360	48-66-3260	12-1/4	8-1/2	13
1650	1/2	120	8	450	Trpl.	1/2"-20	48-66-1280	48-66-3280	12-1/4	8-1/2	13
1650-1 REV.★	1/2	120 AC DC	8	450	Trpl.	5/8"-18	48-66-1380	48-66-3280	12-1/4	8-1/2	13
1704-1 REV.	1/2	120	10	800	Dbl.	#8 J.T.*	48-66-1480	48-66-3120	18	14-3/4	21
1754-1 REV.	5/8	120	10	525	Trpl.	#3 J.T.*	48-66-1880	48-66-3120	18-1/2	15-3/4	22
1854	3/4	120	11	400	Trpl.	5/8"-18	48-66-2040	48-66-3160	18-1/2	16-3/4	20
1854-1 REV.★	3/4	120	10	400	Trpl.	#3 J.T.*	48-66-2080	48-66-3160	18-1/2	16-3/4	22
2404-1 REV.★‡	1-1/4	120	10	250	Trpl.	"	"	"	18-3/4	21-1/2	28

* Available in 240 Volts. Add -3 after Catalog Number when ordering. See price sheet.
* "Rev" after Catalog No. indicates reversing type motor.

† Jacobs Taper Spindle

‡ For fast, deep hole drilling with auger bits

§ With No. 3 Internal Morse Taper Socket

§ To adapt a 3/4" capacity chuck to 2404-1 Drill with No. 3 Internal Morse Taper Socket, specify Chuck Kit No. 48-22-1550. Kit consists of Chuck No. 48-66-2000 and Arbor No. 48-07-0100

NO. 3540 DRILL STAND FOR DRILLS NO. 1704-1 AND LARGER

Height of Post 36"
Max. Feed 5-1/2"
Size of Base 10" x 10"
Chuck to Base - Max. 17-1/2"
Chuck to Post 8-1/2"
Wgt. Less Drill 33 lbs.
Ship. Weight 45 lbs.

THESE TOOLS COMPLY WITH U.S.A. REQUIREMENTS

A BELT BATTERY AND CORD

(For use with Pistol Drill Model Nos. 0135 and 0235 only.)

BATTERY OUTPUT IS SUBJECT TO THE POWER CONSUMED.

NO. 48-11-0060 9.6 Volt Nickel-Cadmium BATTERY (less cord). 4 amp hours capacity. 70 to 25 hours of actual in use running-time before recharging is required. Use adapter cord No. 48-76-0090.

NO. 48-76-0090 12" Adapter Cord furnished separately

B CADMIUM BATTERY CHARGER NO. 48-59-0060

For Belt Battery - 14 hour fast charge. Plug into 115 Volt AC outlet and connect to battery.

C BATTERY AND CARRYING CASE

The 12 Volt Gel/Cell storage battery has a rated capacity of 28 amp. hours. 4.7 to 1.9 hours of actual in use running time before recharging is required.

BATTERY OUTPUT IS SUBJECT TO THE POWER CONSUMED.

BATTERY NO. 48-11-0078 CARRYING CASE NO. 48-55-0048

NOTE: When ordering tools for use without the MILWAUKEE Battery carrying case, the 8 foot cord with battery clips NO. 48-76-0080, is required.

D 6 AMP BATTERY CHARGER NO. 48-59-0100

An economical battery charger for recharging 12 volt batteries at 6 amps. Polarity protected - built-in circuit breaker protects against short circuits and overloads. Completely automatic - charger shuts off when battery reaches charge capacity. Equipped with ammeter to show rate of charge.

E 8' CORD WITH BATTERY CLIPS NO. 48-76-0080

For connecting 12 Volt tools to 12 Volt batteries in motor vehicles, boats, mowers, etc., use this two wire, 10 gauge cord with 2 battery clips and female connection.

25' 12 VOLT EXTENSION CORD NO. 48-76-0050

Can be used with MILWAUKEE battery case or cord with battery clips.

TYPE "A" GREASE

NO. 48-08-0500 1/2 Lb. Can NO. 48-08-0800 1 Lb. Can

THESE TOOLS COMPLY WITH U.S.A. REQUIREMENTS

HEAVY-DUTY HAMMER DRILL

DOUBLE INSULATED MODELS
NO. 5388
NO. 5389 KIT
GROUNDED MODELS
NO. 5398
NO. 5399 KIT

FOR PERCUSSION CARBIDE-BIT DRILLING IN
CONCRETE AND MASONRY AND DRILLING
WITHOUT HAMMERING IN WOOD OR METAL

0.23

- 18,000 BLOWS PER MIN.
- POWERFUL MILWAUKEE-BUILT MOTOR
- ALL BALL AND ROLLER BEARING
- NO HOURLY OR DAILY OILING—GREASE PERIODICALLY DEPENDING ON AMOUNT OF USE

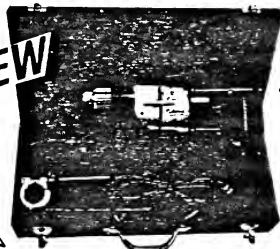


HAMMER—
DRILL
UP TO
7/8" HOLES
IN CONCRETE
OR MASONRY



DRILL
WOOD—STEEL...
LARGE
CAPACITIES,
HIGH TORQUE

NEW



HEAVY-DUTY STEEL CARRYING CASE

- LARGE STORAGE AREA FOR EXTRA BITS, ACCESSORIES, ETC.
- HEAVY-DUTY 20 GAUGE STEEL CONSTRUCTION.

STEEL CARRYING CASE ONLY
NO. 48-55-1510

- ADJUSTABLE SIDE HANDLE FOR MAXIMUM CONTROL
- DEPTH ROD EASILY ADJUSTED BY LOOSENING SIDE HANDLE

Milwaukee

1/2" CHUCK
CAPACITY

HAMMER-DRILL KITS
NO. 5389 DOUBLE INSULATED
NO. 5399 GROUNDED

Kits contain Hammer-Drill plus Depth Rod,
Side Handle and Chuck Key in a Heavy
Gauge Steel Case.

TYPE "A" GREASE

1/2 Lb Can No. 49-08-0500
1 Lb Can No. 49-08-0800

CATALOG NUMBER	VOLTS	AMPS	BLOWS PER MIN	NO LOAD RPM	FLAT BORING BITS	HOLE SAW	AUGER BITS	SHIP AUGER BITS	SELF- FEED BITS	TWIST DRILL	CARBIDE TIP BIT		LENGTH	NET WEIGHT LBS	SHIPPING WEIGHT LBS
											SDFT	HARD			
5388 •	120	8.2	19,000	950	1-1/2"	3-1/2"	1"	1-1/8"	1-1/2"	1/2"	7/8"	5/8"	15-1/2"	7-1/2"	8
5389 KIT •	120	8.2	18,000	950	1-1/2"	3-1/2"	1"	1-1/8"	1-1/2"	1/2"	7/8"	5/8"	15-1/2"	17	18
5398 ★	120	6.2	19,000	950	1-1/2"	3-1/2"	1"	1-1/8"	1-1/2"	1/2"	7/8"	5/8"	15-1/2"	7-1/2"	9
5399 KIT	120	6.2	19,000	950	1-1/2"	3-1/2"	1"	1-1/8"	1-1/2"	1/2"	7/8"	5/8"	15-1/2"	17	18

STANDARD EQUIPMENT. Depth Rod, Side Handle and Chuck Key No. 48-66-3280.

★ Available in 240 Volts AC. Add 2 after Catalog Number when ordering. See price sheet.

• Double Insulated.

MILWAUKEE ELECTRIC TOOL
CORPORATION CERTIFIES THAT
THESE TOOLS COMPLY WITH
O.S.H.A. REQUIREMENTS

PERCUSSION CARBIDE-TIP BITS For drilling concrete and masonry

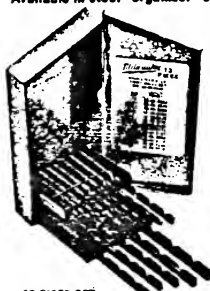


These Carbide-Tip Bits are especially made with round shanks for use with Hammer-Drills. Alloy steel shanks and bodies for durability and long life. Highest quality carbide tips brazed to steel bodies resist dulling, stay sharp longer and can be resharpened often. Wide spiral with shallow oval flutes removes dust fast to assure maximum drilling efficiency.

BIT DIA. IN.	CATALOG NUMBER	SHANK DIA. IN.	OVERALL LGTH. IN.	BIT DIA. IN.	CATALOG NUMBER	SHANK DIA. IN.	OVERALL LGTH. IN.
11/64	48-20-6170	11/64	3	3/8	48-20-6382	5/16	13-1/2
3/16	48-20-6180	3/16	3	7/16	48-20-6440	3/8	8
7/32	48-20-6220	3/16	3	15/32	48-20-6470	3/8	8
1/4	48-20-6250	1/4	4	1/2	48-20-6500	3/8	8
1/4	48-20-6251	1/4	6	1/2	48-20-6501	3/8	13-1/2
9/32	48-20-6280	17/64	4	9/16	48-20-6560	3/8	8
5/16	48-20-6310	17/64	4	5/8	48-20-6620	1/2	8
5/16	48-20-6311	17/64	6	11/16	48-20-6690	1/2	6
3/8	48-20-6380	5/8	4	3/4	48-20-6750	1/2	6
3/8	48-20-6381	5/8	6	7/8	48-20-6880	1/2	6

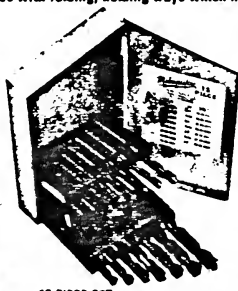
JOBBERS LENGTH TWIST DRILL SETS

Available in steel "organizer" cases with folding, holding trays which have permanently marked drill sizes.



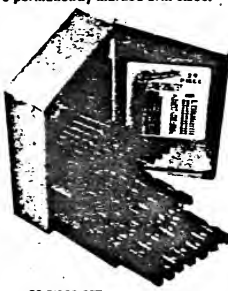
13 PIECE SET

Cat No 48-89 0030 has two folding, holding trays. Sizes 1/16" to 1/4" by 64ths. Case only. Cat No. 48-85-0787.



15 PIECE SET

Cat No 48-89 0020 has two folding, holding trays. Sizes 1/16" to 1/2" by 32nds. Case only. Cat No. 48-85-0788.



29 PIECE SET

Cat No 48-89 0010 has three folding, holding trays. Sizes 1/16" to 1/2" by 64ths. Case only. Cat No. 48-85-0785.

Milwaukee

POWER SHIP AUGER BITS



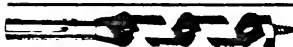
3/8" SHANK

15" TWIST

18" OVERALL LENGTH

Cut overall cost per hole by using these accurately machined 3/8" shank ship auger bits. A tough fast-cutting shiphead plus precision hardened cutting edges require less frequent resharpening. 3/8" D-Handle drills and larger can use all bits, also fit hand braces.

DIAMETER	CATALOG NUMBER	DIAMETER	CATALOG NUMBER
8/16"	48-13-0581	13/16"	48-13-0811
5/8"	48-13-0521	7/8"	48-13-0671
11/16"	48-13-0581	15/16"	48-13-0931
3/4"	48-13-0751	1"	48-13-1001



1/2" SHANK

4" TWIST

6" OVERALL LENGTH

Precision machined for smooth wobble free boring. 1/2" D-Handle drills and larger can use all bits.

11/16"	48-13-0683	1-1/16"	48-13-1061
3/4"	48-13-0753	1-1/8"	48-13-1123
13/16"	48-13-0813	1-1/4"	48-13-1253
7/8"	48-13-0873	1-3/8"	48-13-1373
15/16"	48-13-0933	1-1/2"	48-13-1503
1"	48-13-1003		



1/2" SHANK

15" TWIST

18" OVERALL LENGTH

For all types of construction. Accurately machined for tough deep hole boring in wood. 1/2" D-Handle drills and larger can use all bits. Feed screw point, one cutting edge and side lip produce fast cutting.

8/16"	48-13-5560	1"	48-13-8000
5/8"	48-13-5620	1-1/16"	48-13-8010
11/16"	48-13-5680	1-1/8"	48-13-8120
3/4"	48-13-5750	1-1/4"	48-13-8250
13/16"	48-13-5810	1-3/8"	48-13-8370
7/8"	48-13-5870	1-1/2"	48-13-8500
15/16"	48-13-5930		

CARBIDE-TIP MASONRY BITS



BLACK OXIDE FINISH

SPECIAL FEATURES:

- Alloy steel shank for strength and durability
- Shallow precision machined oval flutes prevent dust packing
- Carbide-tip...the hardest metal made...brazed to alloy steel bodies

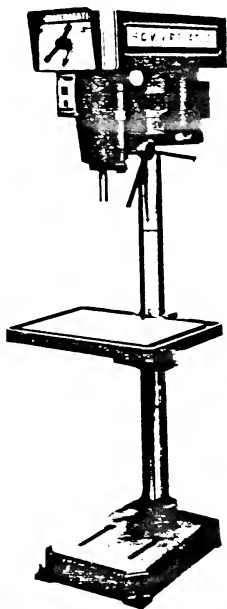
Drills masonry, brick, stone, plaster, slate. Wide, spiral flutes lift dust out of hole. Bit cuts at maximum efficiency without clogging. Produces clean, accurately sized holes fast. Carbide tip resists dulling. Bits may be resharpened on bench grinder using silicon carbide grinding wheel. Bits in sizes from 1" through 1-1/2" are of two piece design. Shank is 1/2" hex dia. with 1/2"-13 thread...nut serves as bit shoulder.

EXTRA LENGTH BIT



Narrow lands and fast spiral for rapid dust removal.

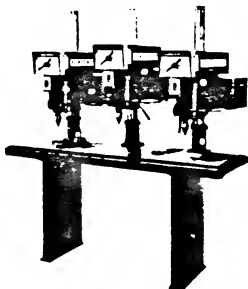
DIAMETER	CATALOG NUMBER	SHANK DIA.	OVERALL BIT LENGTH
1/8"	48-87-8120	1/8"	3"
5/32"	48-87-8150	5/32"	3"
11/64"	48-87-8170	11/64"	3"
3/16"	48-87-8190	3/16"	3"
7/32"	48-87-8210	1/4"	3"
1/4"	48-87-8250	1/4"	4"
1/4"	48-87-8251	1/4"	12"
1/4"	48-87-8253	1/4"	8"
9/32"	48-87-8280	1/4"	4"
5/16"	48-87-8310	1/4"	4"
3/8"	48-87-8370	1/4"	4"
7/16"	48-87-8430	1/4"	6"
1/2"	48-87-8500	3/8"	6"
1/2"	48-87-8502	3/8"	18"
8/16"	48-87-8580	1/2"	6"
5/8"	48-87-8620	1/2"	6"
11/16"	48-87-8660	1/2"	6"
3/4"	48-87-8750	1/2"	8"
7/8"	48-87-8870	1/2"	8"
1"	48-87-1000	1/2"	12"
1-1/8"	48-87-1120	1/2"	12"
1-1/4"	48-87-1250	1/2"	12"
1-1/2"	48-87-1500	1/2"	12"



No belts to handle when you change spindle speed! Just a twist of the accurately-calibrated variable speed control lets you choose speeds instantly while machine is running. Extra wide speed range in one model. 475 to 4800RPM (49.74 rad/s to 502.66 rad/s). Increased accuracy and bit life in all drilling operations.

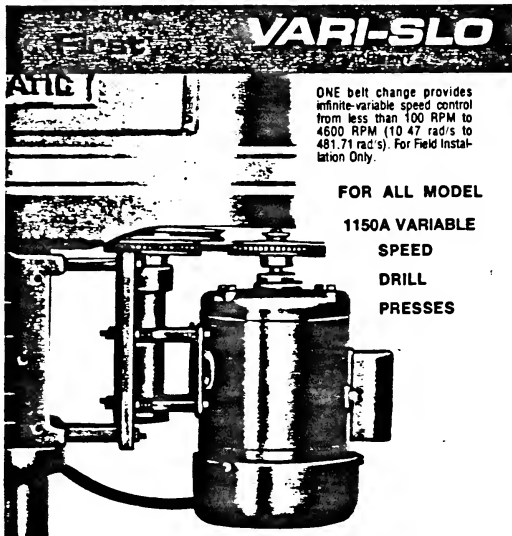


FULL 6" (152.40 mm) STROKE NOW STANDARD



VARIABLE SPEED MULTIPLES

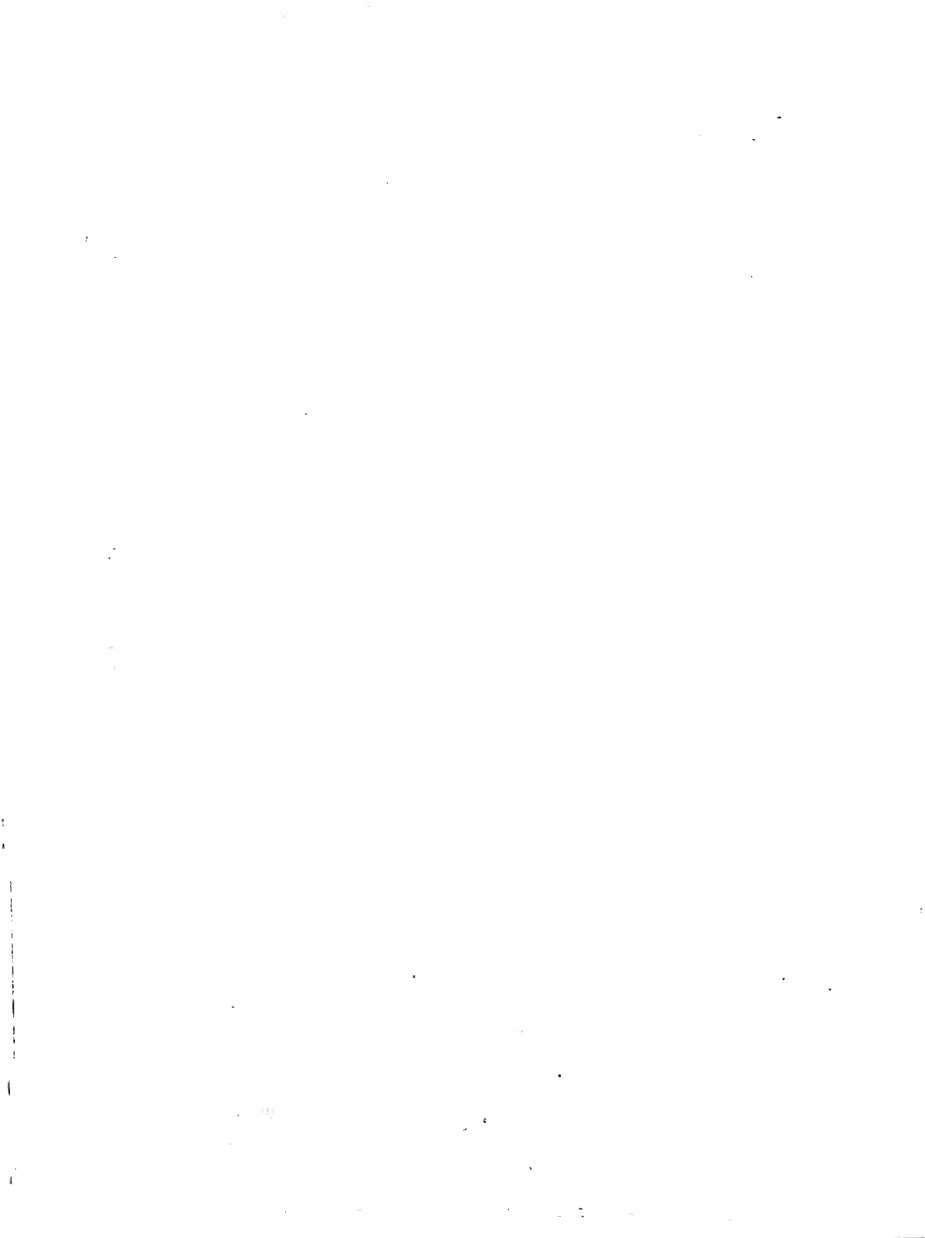
Solid steel, 10-spline, one piece spindle for #2 M.T. or #33, 0"-1/2" Jacobs Taper.



VARI-SLO

ONE belt change provides infinite-variable speed control from less than 100 RPM to 4600 RPM (10.47 rad/s to 481.71 rad/s). For Field Installation Only.

FOR ALL MODEL
1150A VARIABLE
SPEED
DRILL
PRESSES



Separate pedestals available for every unit
All models designed for heavy duty use—1-year guarantee

BALDWIN 0-25
GRINDERS & BUFFERS

8" GRINDERS

Made for heavy duty tool grinding and production work. Sharply tapered shafts provide ample clearance between wheels and motor frame. Extra heavy 1/2" shaft; over-size D6 ball-bearings; heavy cast iron base; exhaust-type guards. Grinder-buffer has extra long shaft extension on right side. Wheel center distance—grinder, 38 1/2"; grinder-buffer, 49 1/2". Meets UL specifications.

Wheels: 8" x 1 1/2". Single phase units have 2-pole switch mounted in base. 3-conductor grounding-type cord and 3-prong plug and adaptor. Guard on both sides. Grinder-buffer has wire wheel on right side, no guard on right side.

10" GRINDERS

Heavy duty, ruggedly designed grinder. Extra large D6 ball-bearings—arbor diameter 1 1/2"—compared with conventional 1 1/4"—arbor recommended for continuous heavy duty use in industrial plant or tool room. Motor frame diameter 3 1/2"—plenty of room for sharpening long or odd-shaped pieces around grinding wheels. Wheel center distance—18". Meets UL specifications.

Wheels: 10" x 1 1/2". Single phase units have 2-pole switch mounted in base.

Cat. No.	H.P.	Volt	Ph.	Cyc.	R.P.M.	Wheel Width	Net WL	Shpg. WL	Unit
8106W	3/4	115/230	1	60	3450	1"	90	98	GRINDER
8107W	3/4	115/230	1	60	3450	1"	90	98	GRINDER
8102W	3/4	208-220/440	3	60	1725	1"	98	95	GRINDER
8123W	1	208-220/440	3	60	3450	1"	98	95	GRINDER
8250W	1 1/2	115/230	1	60	3450	1"	122	120	GR-BUFFER
8302W	1 1/2	115/230	1	60	1725	1"	140	135	GRINDER
8301W	1 1/2	208-220/440	3	60	1725	1"	140	135	GRINDER

12" GRINDERS

Recommended for jobs requiring a powerful, all-purpose grinder. Manual starter—with overload protection—conveniently located in base. Speed of 1725 R.P.M. provides desired cutting speed—5400 surface feet per minute for tool grinding and most production jobs. Motor diameter is 2 1/2"—allows plenty of working room for sharpening long or odd-shaped pieces.

Wheels optional—will accommodate wheels 12" dia. x 1 1/2". Heavy shaft—1 1/2" diameter; over-size D6 ball-bearings. Wheel center distance—23". Pedestal optional.

14" GRINDERS

All new models specially suited for jobs requiring a faster than normal cutting speed. 3 1/2" wheels travel at speed of approx. 3300 surface feet per minute. Packs plenty of power and overload capacity. Handles production jobs as easily as tool grinding.

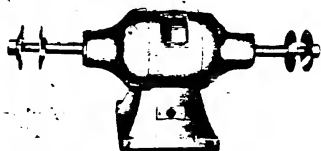
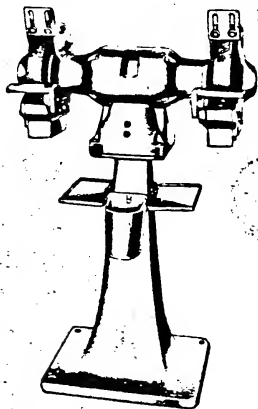
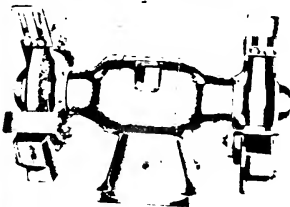
Wheels optional—will accommodate wheels 14" dia. x 1 1/2". Wide 3 1/2" arbor (1 1/2" dia.). Over-size D6 ball-bearings. Wheel center distance—34 1/2". Pedestal optional.

Cat. No.	H.P.	Volt	Ph.	Cyc.	R.P.M.	Max. Wheel Width	Net WL	Shpg. WL	Unit
1216W	3/4	208-220/440	3	60	1725	1 1/2"	120	170	GRINDER
1217W	3/4	115/230	1	60	3450	1 1/2"	120	170	GRINDER
1206W	1	208-220/440	3	60	1725	1 1/2"	120	170	GRINDER
1401W	1 1/2	208-220/440	3	60	1725	1 1/2"	120	170	GRINDER

6", 8", 10", 12", 14", WHEEL BUFFERS

Heavy duty type—made for tool grinding and production work. Extra heavy 1/2" shaft; over-size D6 ball-bearings; heavy cast iron base; exhaust-type guards. Grinder-buffer has extra long shaft extension on right side. Wheel center distance—grinder, 38 1/2"; grinder-buffer, 49 1/2". Meets UL specifications.

Cat. No.	H.P.	Volt	Ph.	R.P.M.	Arbor Size	Sq'd. Wheel Dimensions	Shaft Ext. From End Plate	Overall Shaft Length	Net WL
6106W	3/4	115/230	1	60	1 1/2"	6" x 1 1/2"	1"	10"	60"
6107W	3/4	115/230	1	60	1 1/2"	6" x 1 1/2"	1"	10"	60"
6102W	3/4	208-220/440	3	60	1 1/2"	6" x 1 1/2"	1"	10"	60"
6123W	1	208-220/440	3	60	1 1/2"	6" x 1 1/2"	1"	10"	60"
6250W	1 1/2	115/230	1	60	1 1/2"	6" x 1 1/2"	1"	10"	60"
6302W	1 1/2	115/230	1	60	1 1/2"	6" x 1 1/2"	1"	10"	60"
6301W	1 1/2	208-220/440	3	60	1 1/2"	6" x 1 1/2"	1"	10"	60"



CONVERTIBLE TOOL GRINDER



Precision built to do precision grinding—yet so easy to operate that even a virtually unskilled operator can dynamically balance wheels, move and place to position at half speed, and make heavy cuts. Standard motor.

Motor supplied with heavy-duty reversible switch—permits sharpening of either left hand or right hand tools. Single phase grinders powered with selector run motors. No auxiliary moving parts—won't burn out even under repeated overloading. Three phase grinders use a heavy duty, squirrel cage type motor.

STANDARD EQUIPMENT INCLUDES:

Changes on each side of grinder to accommodate cup wheels 2" diameter, 1 1/2" deep, recessed 4" diameter, 1 1/2" deep—steel backed with 1/2" hole; also takes diamond wheels.

Machine tool light swings over either wheel.

Protector type tool support sets in slot of big, 12" x 18 1/2" tool tables.

Protector at each end of grinder indicates angle (up to 45°) of tiltable tool tables.

Water pot with spout and faucet—can be mounted over either wheel on support provided on both guards; two large water pans.

500
750
950

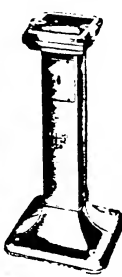
H.P.	Vol.	Ph.	Rev.	R.P.M.	Net Wt.	Ship. Wt.
1/4	115	1	460	3650	35	110
1/2	220	3	460	3650	85	110
3/4	208-220/440	3	580	3650	95	110

4 HOLES
10-32 TAP

PEDESTALS



GA14
Formed steel. For 8", 7", 8", 10" grinders, buffers; also carbide tool grinder.



GA16, cast iron. For 8", 10" grinders & buffers.

GA16/17, with adaptor. For 8", 7" grinders & buffers, carbide tool grinder.

Height less adaptor—32 1/2". Height with adaptor—37 1/2". Weight—66 lbs. Base—16 1/2" wide x 14" deep.



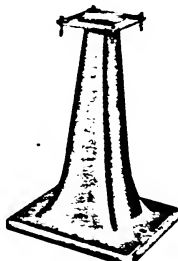
Rectangular hole for mounting of switch or manual starter. Cover plate for hole also serves as switch mounting plate—takes any toggle switch or standard 2-pole starter.

Standard starter, 3-phase manual or magnetic, or single phase magnetic, mounts into tapped holes at rectangular opening. Edges ground flat to permit tapping of other holes for special starter.



GA1
Cast iron. For 8", 10" grinders, buffers; also carbide tool grinder.

Height—30". Weight—85 lbs. Base—15" wide, 15" deep.



GA2
Cast iron. For 12", 14" grinders and buffers. Available on request for 8", 10" grinders and buffers.

Height—30". Weight—115 lbs. Base—20" wide, 17" deep.

EYE SHIELDS

GA3—LIGHT TYPE

Shatterproof glass pane, 9 1/2" wide, 7 1/2" deep. Light socket takes standard Mazda bulb, 60 watts or less. Adjusts horizontally or vertically—lifts up or down. Fits all grinders except 6" standard—also fits most other make grinders.

GA11—STANDARD TYPE

Shatterproof glass pane, 6" wide, 4" deep. Adjusts vertically to any desired position—lifts up, down or backward. Supplied with mounting arm and screws. Fits all Baldor grinders and most other makes.



GA3
For GA1 & GA2 pedestals.
Capacity—8 pints.
Weight—5 lbs.



GA16
For GA16 pedestal.
Capacity—1 1/2 pints.
Weight—10 lbs.



GA11
Complete with mounting bracket and swivel arm.
Capacity—1 1/2 pints.
Weight—8 lbs.



GA3—SWIVEL TYPE
Complete with mounting bracket, swivel arm, aluminum tray. Size—8" diameter. Area—68 sq. inches. Wt—14 lb.



GA4
For GA1 & GA2 pedestals.
Size—12" x 10".
Weight—8 lbs.

WATER POTS



GA3
For GA1 & GA2 pedestals.
Capacity—8 pints.
Weight—5 lbs.



GA16
For GA16 pedestal.
Capacity—1 1/2 pints.
Weight—10 lbs.



GA11
Complete with mounting bracket and swivel arm.
Capacity—1 1/2 pints.
Weight—8 lbs.



PLANE BLADE GRINDING ATTACHMENT

Grinds plane blades, chisels, and other flat tools. Mounts on GA1, GA2, GA16, GA11 pedestals. Size—12" x 10". Weight—8 lbs.

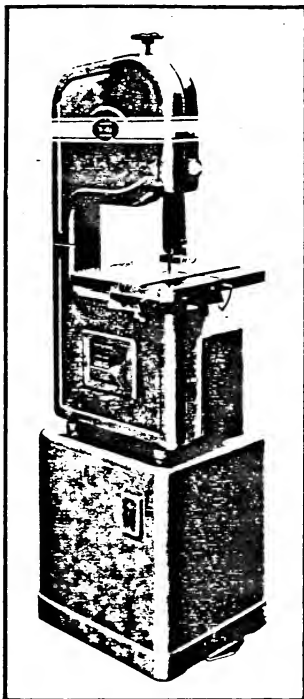
BALDOR

ELECTRIC COMPANY

4353 Duncan Ave. St. Louis 10, Mo.
Better built motors since 1929

RUGGED ... BIG CAPACITY ... A VERSATILE PERFORMANCE LEADER ...

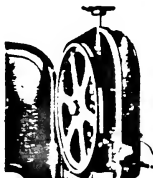
Combining careful design, rugged cast iron construction and big capacity, the Powermatic® Model 143-14" combination wood and metal Band Saw is equally adaptable to the machine shop, tool room, foundry, pattern or school shop, or wherever exacting performance is required. The added rigidity of its heavy duty construction makes it possible to cut stainless steel and guarantees true accuracy wherever there exists the problem of performing precision contour and band filing operations. Loaded with quality features, the Model 143-14" Band Saw is the ultimate for production needs ... and it's priced within the range of the average hobbyist.



Blade Guard. Extends the protected blade area to the workpiece, minimizing blade exposure to workable tolerances. Wt. 4 Oz (2kg)



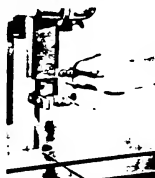
Exhaust Chute. This exhaust chute scavenges most of the dust and particles from inside the saw, reducing clean-out periods and improving saw performance. Wt. 1 lb (45kg)



Quick-change tires eliminates difficult tire change—massive box-type casting houses dynamically balanced wheel for smooth operation.



Eye level blade tension scale shows correct tension for different blade widths. Adjustable from front of machine.



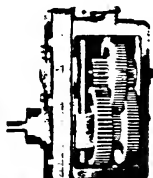
Saw Guides. Rugged, dependable hardened steel side guides with ball bearing back-up guarantee accuracy. Lower angular guide places guide just below table surface for maximum blade control.



Swivel type table stop. Positive table stop at 90° or is easily moved to a 15° left tilt.



Side Takeout Slot for bandsaw blade eliminates necessity of split or narrow trunnions. Tapered pin keeps table surface flat.



Heavy Duty Precision Gear Train is constantly bathed in non-foaming oil. All shafts are mounted in sealed ball bearings assuring long life and trouble-free operation.



Belt-Tension Control. Swing-away action provides quick, simple belt tension control. Lever located outside of belt housing permits: belt adjustment in a minimum of time.



Welder. Blade welder and grinder for quick blade repair and installation. Portable only.

FEATURES

FRAME: Massive, box-type, one piece cast iron frame, ribbed and cross ribbed for maximum rigidity, vibrationless, trouble free service.

TRANSMISSION: Friction free ball bearing design throughout ... a massive, quick-change two speed gear box constantly bathed in oil for noise-less, long life operation. The two-speed transmission and step pulley drive provide any of eight speeds from 40 to 3000SFPM (203 m/s to 15,240 m/s) for cutting a variety of metals, plastics and wood.

WHEELS: Heavy duty cast iron upper and lower wheels are precision machined and dynamically balanced for smooth running. Crowned rubber tires provide positive grip preventing blade slippage.

TABLE: A huge 15" x 15" (381.00mm x 381.00mm) cast iron table, ground for true accuracy is equipped with side take-out permitting use of a solid rip fence guide rail. Tilts 45° right — 15° left with positive stop at 90°.

TRUNNION: Wide-spaced cast iron and steel trunnion assures positive locking of table. An easy to reach 'sight' scale is mounted on front of table for quick positive tilt adjustment.

SAW GUIDES: The top saw guide is fitted with backup ball bearing and large hardened steel side guides. Lower guide also utilizes backup ball bearing with angular hardened steel side guides. This design places lower guide just below table surface for maximum blade control.

GUARDS: All moving parts are completely guarded. Only the operating portion of the blade is exposed. Large deep drawn steel doors enclose upper and lower wheels.

SAW BLADE ADJUSTMENT: Blade tension is adjusted with conveniently located handwheel springloaded to absorb shock and maintain equal tension on the saw blade. Convenient scale, mounted at eye-level for proper blade tension.

STANDARD EQUIPMENT

MODEL 143 BANDSAW: 2-speed Transmission, belt guards, driven belt, 3/4" (9.52 mm) blade, wheel blade guards, stand, wrenches,

hardened steel blade guides, driven pulley, drive belt and exhaust chute.

BASIC MACHINES

1430010 — 14" Bandsaw, complete with all standard equipment. Less: Motor and controls.

MOTORS FOR USE WITH MODEL 143 BANDSAWS

1 Phase
6470700 — 3/4HP (.560kw), 60 Hz, 1800RPM (188.50 rad/s), 115/230V, TEFC, 56 frame.

3 Phase
6470702 — 3/4HP (.560kw), 60 Hz, 1800RPM (188.50 rad/s), 575V, TEFC, 56 frame.
6470707 — 3/4HP (.560kw), 60 Hz, 1800RPM (188.50 rad/s), 230/460V, TEFC, 56 frame.
6470712 — 3/4HP (.560kw), 60 Hz, 1800RPM (188.50 rad/s), 200V, TEFC, 56 frame.

CONTROLS FOR USE WITH MODEL 143 BANDSAWS

1 Phase
2398114 — Pushbutton Switch, 115v.
2398336 — Magnetic Controls, 115/230v.
2398487 — Magnetic Controls, 115/230v, w/24v transformer.

3 Phase
2398115 — Pushbutton Switch, 200/230/460/575v.
2398118 — Magnetic Controls, 200/230/460/575v.
2398230 — JIC Controls, 200/230/460/575v. Class 1 only.
2398435 — Magnetic Controls, 200/230/460/575v, w/24v transformer.
9100003 — Conduit in lieu of standard wiring.

*May be specified with 110v transformer.

OPTIONAL ACCESSORIES

1990010 — Band Saw Welder with case and grinder for blades up to 1/2" (12.70mm), 115v, wt. 59 lbs (26.8kg)
1990020 — Band Saw Welder with case and grinder for blades up to 3/4" (19.05mm), 230v, wt. 59 lbs (26.8kg)
1990030 — Band Saw Welder with case and grinder for blades up to 1" (25.40mm), 460v, wt. 59 lbs (26.8kg)
1990040 — Band Saw Welder with case and grinder for blades up to 1 1/2" (38.10mm), 575v, wt. 59 lbs (26.8kg)
2195015 — Rip Fence, Wt. 8 lbs (3.6kg)
2471010 — Miter Gauge, Wt. 3 1/2 lbs (1.6 kg)
2250087 — Guard (retrofit). Wt. 1 lb (.45 kg)

2670003 — Stop Rod Assembly, Wt. 1 lb (.45kg)
6080006 — 1/4" wide band saw blade. (Specify wood or metal). Wt. 8 oz (2kg)
6080009 — 3/4" (9.52 mm) wide band saw blade. Wt. 6 oz (2 kg)
6080010 — 1/2" (12.70 mm) wide band saw blade. Wt. 8 oz (23 kg)
6080011 — 3/4" (19.05 mm) wide band saw blade. Wt. 12 oz (3 kg).
6448005 — Work Light, Wt. 10 oz (3kg).
2379001 — Dust Chute (retrofit). Wt. 1 lb (.45 kg).

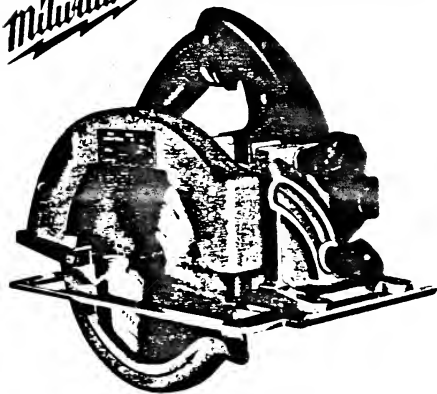
SPECIFICATIONS

Capacity: Blade to column distance 14" (355.80mm)
Under guide 6 1/2" (165.10mm)
Speeds: With 1800RPM (188.50 rad/s) motor 40SFPM (203m/s),
60SFPM (305 m/s), 100SFPM (508 m/s), 180SFPM (813m/s),
750SFPM (3,810 m/s), 1200SFPM (6,096 m/s), 1800SFPM
(9,144m/s), 3000SFPM (15,240m/s)
Overall Height (on stand) 71" (1803.40mm)
Width 25 1/2" (647.70mm)
Front to back 13 1/4" (336.55mm)

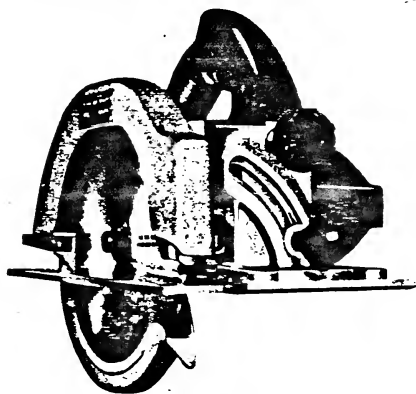
Table size 15" x 15" (381.00mm x 381.00mm)
Table height from floor 42" (1066.80mm)
Table tilt 45° right, 15° left
Blade width, maximum 3/4" (19.05mm)
Blade length 94" - 98" (2387.80mm - 2438.40mm)
Weight, domestic crated, with stand and motor 395 lbs (179.1kg)
Export boxed, with stand and motor (41.5 cu ft (1.174 m3))
..... 575 lbs (260.8kg) App.

HEAVY-DUTY CIRCULAR SAWS

Milwaukee **POWERFUL - 13 AMP MOTOR - 0.27 H**



NO. 6365
7-1/4"



NO. 6405
8-1/4"

Milwaukee

LIGHTWEIGHT HEAVY-DUTY BALANCED CONTRACTORS

MILWAUKEE ELECTRIC TOOL CORPORATION CERTIFIES THAT

- All Ball and Roller Bearings
- Serviceable...External Brushes
- Heavy-Duty Construction Throughout... Strong—Non-Conductive Glass Filled Nylon Housing and Handle
- Quick Return, Heavy-Duty, Safety Telescoping Guard. Smooth, Easy Action



Clear Line Sighting... operator sees exactly where blade will cut.



Graduated lip on shoe for fast set-up of rip cuts.



Rip Guide easily attached and held firmly. Available as an accessory.

SPECIFICATIONS

BLADE SIZE	CATALOG NUMBER	SAW TYPE	VOLTS	AMPS	NO LOAD SPEED (RPM)	ARBOR	DEPTH OF CUT AT 90°	MAX. DEPTH OF CUT AT 45°	NET WEIGHT	SHIP WEIGHT
7-1/4"	6365 ★	CONTRACTORS SAW	120	13.0	5800	6/8"	2-7/16"	1-27/32"	12	17
8-1/4"	6405	CONTRACTORS SAW	120	13.0	5800	5/8"	2-15/16"	2-1/8"	13	18

Standard Equipment: Includes Combination Saw Blade and 9/16" Wrench.

★ Available in 240 Volts. Add :2 after Catalog Number when ordering. See price sheet.

ACCESSORIES FOR MILWAUKEE CONTRACTORS SAWS

STEEL CARRYING CASE NO. 48-55-1150
RIP FENCE KIT NO. 49-22-4100
Includes Wing Nut Screw
No. 06-87-5000
MISCELLANEOUS NO. 49-96-6200
9/16" Utility Wrench
No. 48-08-4120
1 Lb. Can "E" Grease

SELECT THE RIGHT MILWAUKEE CIRCULAR SAW



CHISEL TOOTH COMBINATION



MASTER COMBINATION

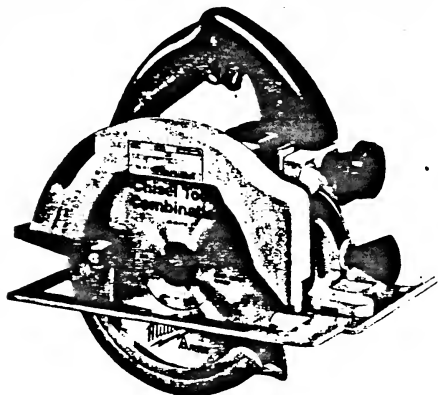


COMBINATION/ RIP



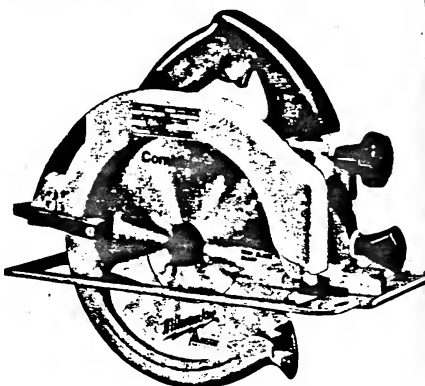
CROSSCUT/ FLOORING

PERFORMANCE CONTRACTORS SAWS



NO. 6367
7-1/4"

DOUBLE INSULATED



NO. 6407
8-1/4"

DOUBLE INSULATED

ALL TOOLS COMPLY WITH O.S.H.A. REQUIREMENTS

SAWS WITH SUPER SAWING FEATURES



One knob adjustment for height and one knob adjustment for angle.



Special Trigger Switch — Handle. Designed for maximum control when carrying and when sawing.



Heavy-duty cord for extra long service. Cord wear is minimized by rear center strain relief.



Rear and side sawdust chute ejects sawdust away from operator and work.



Quick Return, Heavy Duty. Safety Telescoping Guard. Smooth, easy action.

SPECIFICATIONS — DOUBLE INSULATED MODELS

BLADE SIZE	CATALOG NUMBER	SAW TYPE	VOLTS	AMPS	NO LOAD SPEED (RPM)	ARBOR	DEPTH OF CUT AT 90°	MAX. DEPTH OF CUT AT 45°	NET WEIGHT	SHP WEIGHT
7-1/4"	6367	CONTRACTORS SAW	120	13.0	5800	5/8"	2-7/16"	1-27/32"	12	17
8-1/4"	6407*	CONTRACTORS SAW	120	13.0	5800	5/8"	2-15/16"	2-1/8"	13	18

Standard Equipment: Includes Combination Saw Blade and 9/16" Wrench.

* Available in 240 Volts. Add 2 after Catalog Number when ordering. See price sheet

SADE FOR THE JOB... See complete listing on Pages 52 and 53



**PLYWOOD/
PANELING**



**PLANERS—
HOLLOW
GROUND**



**THIN RIM
PLYWOOD/
PANELING**



**METAL
CUTTING**



**CARBIDE
TIPPED**



**CARBIDE
TIPPED**



**ABRASIVE
CUTTING
WHEELS**



**ABRASIVE
CUTTING
WHEELS**



THUNDERBOLT 225v

225 AMPERE AC WELDING POWER SOURCE

0-28

FEATURING CONTINUOUS AMPERAGE ADJUSTMENT

Thunderbolt 225v design provides the convenience of continuous amperage adjustment throughout the entire 30-225 ampere welding range.

With this feature you can select the exact heat required for each welding job. Welders with plug-in or selector switch amperage adjustment have considerable amperage gap between ranges.

Here's an example of continuous adjustment at work.

Three identical pieces of stainless steel were welded with a $\frac{1}{8}$ " stainless steel electrode. Sample "A" was welded with 75 amperes — poor penetration, not enough heat. Sample "B" was welded with 110 amperes — undercut, too much heat. Sample "C" was welded with 92 amperes — complete penetration to form the weld bond.



A
Welded at 75 amperes
Not enough heat.

B
Welded at 110 amperes.
Too much heat.

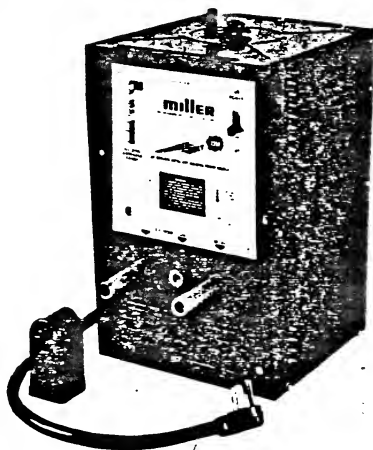


C
Welded at 92 amperes with con-
tinuous current control

• TWO WIDE WELDING RANGES

The high range (40 to 225 amperes) provides ample open circuit voltage for many welding, hardsurfacing and cutting jobs.

By simply moving the electrode jack plug to the low range, ample open circuit is available for operation of low hydrogen and other special alloy electrodes. The low range is 30 to 150 amperes.



• POWER FACTOR CORRECTION

Furnished on Thunderbolt 225vP. Reduces primary input current and permits use of smaller wires and fuses.

• FORCED-DRAFT COOLING

This constant cooling feature is your assurance that all of the welder components are kept well below the critical operating temperatures.

THUNDERBOLT

USERS


- Automotive Repair
- Farm Equipment Repair
- Vocational Training

- Plant Maintenance
- Light Manufacturing
- Sheet Metal Work

SPECIFICATIONS (Subject to change without notice)

Model	Rated Welding Current Amperes at 25 Volts, 20% Duty Cycle	Welding Current Range Amperes		Maximum Open Circuit Volts	Amperes Rated Input at Rated Load Output 60 Hz Single Phase	Dimensions			Weight	
		High	Low			Height	Width	Depth	Net	Ship
Thunderbolt 225v	225	40-225	30-150	80	45.5 Amperes	21 1/2" (54 cm)	12 1/2" (31 cm)	14" (35 cm)	100 lbs. (45 kilo)	105 lbs. (47 kilo)
Thunderbolt 225vP	225	40-225	30-150	80	39.5 Amperes	21 1/2" (54 cm)	12 1/2" (31 cm)	14" (35 cm)	104 lbs. (47 kilo)	109 lbs. (49 kilo)

205(208)/230 model available at standard cost. Optional voltages of 380, 460, or 575 single voltage models available at additional cost. Includes 6 ft primary cord with plug, well receptacle and two welding cable jack plugs. Plug and receptacle not included with models above 230 volts.

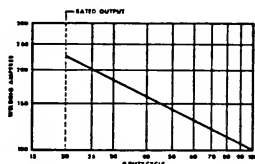
 Underwriters Laboratories Approved (230 volt model only)

THUNDERBOLT	STOCK NO.	VOLTS
225v	902 031	230
OPTIONAL VOLTAGES	901 858	200(208)/230
	901 859	380
	901 860	460
	901 861	575

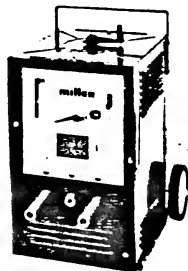
THUNDERBOLT	STOCK NO.	VOLTS
225vP	902 032	230
OPTIONAL VOLTAGES	901 863	200(208)/230
	901 864	380
	901 865	460
	901 866	575

DUTY CYCLE

Duty Cycle is based on a ten minute period for all welding power sources. A welder rated at 225 amperes, 20% duty cycle is designed to supply this rating for two minutes and cool for eight minutes. When the amperage requirement is lowered the duty cycle can be raised according to the chart.



OPTIONAL EQUIPMENT



No. 11 Running Gear
Stock No. 040 874
Two solid rubber tired wheels and handle.



1-TWA Welding Accessories
Stock No. 040 804 includes:
15 feet (4.57 meters) No. 4
electrode cable

10 feet (3.04 meters) No. 4
ground cable with ground
clamp. Heavy duty electrode
holder. High grade welding
helmet.

AT-10 Carbon Arc Torch
Stock No. 040 229

Increase the value of your
electric welder with this easy
to use Carbon Arc Torch. With
the MILLER Carbon Arc Torch
it is now possible to weld and
brazing metals that ordinarily are
considered weldable only by
the oxy-acetylene method. It
is especially adaptable to brazing,
soldering, pre-heating and
hard surfacing.

DISTRIBUTED BY

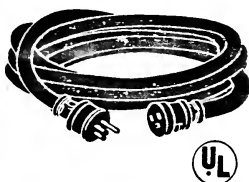
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MILLER ELECTRIC MFG. CO. BRANCHES INC.
PORTLAND, O.



MILLER ELECTRIC MFG. CO., APPLETON, WI 54911

International Dept., Cable "MILLWELD", Appleton, Wis. U.S.A. In Canada: Miller Welders Canada Ltd. In Italy: A.S.C.I./Miller, Milan

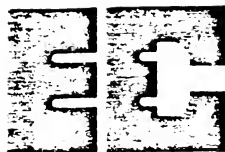
Polar/Solar Cord®



Flexible Strength In The Heat Of Summer Or An Arctic Freeze. Flexibility To - 70°. TPR-Rubber. Meets OSHA Requirements. Available In Black Or Yellow. U/L LISTED for OUTDOOR and indoor use.

New Number	Old Number	Gauge	Type	Length	Pkg.	Wt.
Yellow	Black					
01017	01027	RP182	18/2	300 V	25'	24 24
01018	01028	RP185	18/2	300 V	50'	12 24
01019	01029	RP180	18/2	300 V	100'	6 24
01117	01127	RP162	16/2	300 V	25'	24 27
01118	01128	RP165	16/2	300 V	50'	12 27
01119	01129	RP160	16/2	300 V	100'	6 27
01217	01227	RP262	16/3	300 V	25'	18 17
01218	01228	RP265	16/3	300 V	50'	12 22
01219	01229	RP260	16/3	300 V	100'	6 32
01317	01327	RP4142	14/2	300 V	25'	10 15
01318	01328	RP4145	14/2	300 V	50'	8 24
01319	01329	RP4140	14/2	300 V	100'	6 36
01417	01427	RP4242	14/3	300 V	25'	12 21
01418	01428	RP4245	14/3	300 V	50'	6 22
01419	01429	RP4240	14/3	300 V	100'	6 42
01517	01527	RP4122	12/2	300 V	25'	10 20
01518	01528	RP4125	12/2	300 V	50'	8 28
01519	01529	RP4120	12/2	300 V	100'	4 28
01617	01627	RP4222	12/3	300 V	25'	12 32
01618	01628	RP4225	12/3	300 V	50'	6 30
01619	01629	RP4220	12/3	300 V	100'	4 40
01717	01727	NEW	10/3	300 V	25'	6 22
01718	01728	ITEM	10/3	300 V	50'	4 30
01719	01729	ITEM	10/3	300 V	100'	3 45
01467	01477	RP242	14/3	600 V	25'	6 16
01468	01478	RP245	14/3	600 V	50'	4 22
01469	01479	RP240	14/3	600 V	100'	3 30
01667	01677	RP222	12/3	600 V	25'	6 19
01668	01678	RP225	12/3	600 V	50'	4 24
01669	01679	RP220	12/3	600 V	100'	3 35

NOTE: Order Color Preference by Appropriate Part Number.



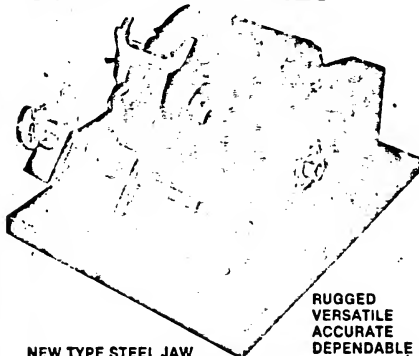
ELECTRICAL CONDUCTORS



KEY MACHINES

0.30

SPEEDEX KEY CUTTING MACHINES



RUGGED
VERSATILE
ACCURATE
DEPENDABLE

NEW TYPE STEEL JAW

This new design assures maximum leverage for a firm grip on cylinder and flat steel keys. Made of steel for added durability.

Comes with a "Sharpy" milling cutter. An optional CW-16 (.045) Flat Slotter with a W-16 Slotter Washer & a 9100-23 Copy Dog is used for cutting flat steel keys. In a very short time, this cutter has become the one which all others are compared.

NO. 9110MC MACHINE MOTOR & BASE WT. 41 LBS.

Supplied with a "Sharpy" milling cutter & a 110V, AC, 1/6 H.P., 1725 R.P.M. motor. Machine & motor are mounted on a 14 1/2" x 11" x 1" metal base.

NO. 9100MC MACHINE ONLY WT. 16 LBS.

Same as No. 9110MC, less motor & base. Bench space: 8" x 4".

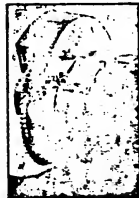
NO. 9110MDC

Same as above but with 12 volt DC motor.

NO. 9110MC-220

Motor is 220 volt, 50 cycle.

THE SPEEDEX "MC" MODEL



THE SPEEDEX "SMS" MODEL

NO. 9110SMS MACHINE, MOTOR & BASE WT. 41 LBS.

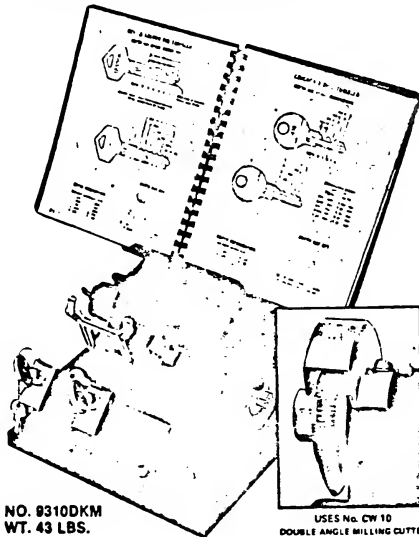
Duplicates either Cylinder or Flat keys with just a .045 thick, side-milling slotter, without changing cutters or re-adjusting guides.

Supplied with an "SMS" side milling slotter, wire brush & a 110V, AC, 1/6 H.P., 1725 R.P.M. motor. Machine & motor mounted on a 14 1/2" x 11" x 1" metal base.

NO. 9100SMS MACHINE ONLY WT. 16 LBS.

Same as No. 9110 SMS, less motor & base. Bench space: 8" x 4".

SPEEDEX "DEPTH KEY MODEL"



NO. 9310DKM WT. 43 LBS.

Supplied with No. CW-10 Double Angle Milling Cutter and a 110V A.C. 1/6 H.P., 1725 R.P.M. motor. Includes depth and space charts book, pedestal, fully enclosed belt guard and wire brush. Mounted on a 14 1/2" x 11" x 1" metal base.

Manual of key cutting dimensions is included. Sits on motor-mounted pedestal as shown.

The only key machine designed exclusively for making accurate cylinder keys by code, through the use of depth key sets. Can also be used for duplicating keys. (Depth key sets not included.)



VACUUM MOTOR DESIGN

Models 8921 and 8931 have a straight-thru motor for dry pick-up. Filters remove dirt from air before reaching the motor. Filtered air is drawn from tank...directed over electrical motor parts for cool efficient operation.

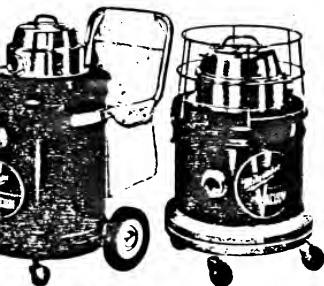
Milwaukee

SEE PAGES 30 AND 31
FOR HAND BLOWER,
COMPLETE VACUUM ACCESSORIES,
ALSO MOTOR HEADS AND
DRUM ADAPTER ASSEMBLY

O-31

NO. 8921
Steel 16" Dia.

NO. 8931
Steel 14" Dia.



NO. 8950
Steel 14" Dia.



NO. 8955
Steel 14" Dia.



WET/DRY VACUUM 121 CFM*

* Maximum Air Flow Co. Ft./Min.
with 1-1/2" Hose.

- POWERFUL
- LIGHTWEIGHT
- DUAL FILTERS
- EASY TO OPERATE

GENERAL SPECIFICATIONS

All models are equipped with 1-1/2" O.D. hose connections, cord with 3-prong grounded plug, 3 vinyl covered hold-down clamps and (Except for model 8950) caddy with non-marring wheels

CAT. NO.	FOR MATERIALS	RECOV. CAP. GAL.	BU.	TANK	VOLTS	AMPS	MOTOR TYPE	MAX. AIR FLOW CU. FT./MIN.	SEALED SUCTION IN. WATER	OVERALL DIMENSIONS WIDTH	HEIGHT	NET WT. (LBS.)	SHIP WT. (LBS.)
8921	DRY ONLY	--	1-1/2	STEEL	120	7	Straight-Thru Motor	95	87"	19"	32"	42	50
8931	DRY ONLY	--	1/2	STEEL	120	7	Straight-Thru Motor	95	87"	17"	25"	28	38
8950	WET or DRY	8	7/8	STEEL	120AC, 60 Hz	8	1-Stage Bypass Motor	121	50"	16-3/4"	22-1/2"	18	25
8955	WET or DRY	10	1-1/8	STEEL	120AC, 60 Hz	8	1-Stage Bypass Motor	121	50"	19-1/2"	38-1/2"	32	44

MILWAUKEE ELECTRIC TOOL CORPORATION
CERTIFIES THAT THESE TOOLS COMPLY
WITH O.S.H.A. REQUIREMENTS

STANDARD EQUIPMENT

FOR MODEL 8921 — Three paper filter bags, cloth filter, gasket, wire frame assembly and swivel connector. Canvas store-all tool bag

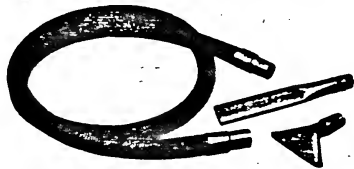
FOR MODEL 8931 — Three paper filter bags, cloth filter, gasket, wire frame assembly, swivel connector and hose carrier.

FOR MODEL 8950 — 7 ft. 1-1/2" I.D. vinyl hose, hose adaptor, cloth filter assembly and foam filter sleeve.

FOR MODEL 8955 — 7 ft. 1-1/2" I.D. vinyl hose, hose adaptor, cloth filter assembly, foam filter sleeve and 3 wheel dolly.

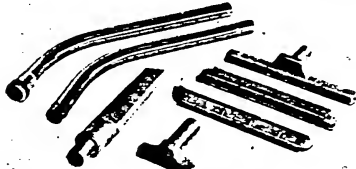
CURRENT MODELS, ALSO FOR PREVIOUS MODELS 8910, 8915, 8930

AUTOMOTIVE KIT 49-90-1660



AUTOMOTIVE KIT NO. 49-90-1660 A kit especially designed for applications doing automotive work. Kit consists of 1 each of the following: 49-90-0060 10 ft. hose, 49-90-0400, 15" crevice tool, 49-90-0740, utility nozzle.

VACUUM ACCESSORY KIT 49-90-1800



VACUUM ACCESSORY KIT NO. 49-90-1800 An array of accessories specifically for general cleanup applications. Kit consists of 1 each of the following: 49-90-1765, wand, 49-90-1770, crevice tool, 49-90-1775, 6" nozzle, 49-90-1785, 14" squeegee shoe, 49-90-1790, 14" rug shoe, 49-90-1780, master nozzle.

HEAVY-DUTY TAND HANDBLOWER POWERFUL AIR DISCHARGE

The MILWAUKEE Hand Blower is designed for heavy-duty operation. Blower directs powerful stream of air into hard-to-reach places. Rubber directional nozzle will not damage delicate machine parts. Handy thumb switch and long cord (18-3.30') permit one hand operation over a wide area. An ideal tool for fast cleaning and reducing maintenance time and cost.

- 60 CUBIC FEET PER MIN.
- 3 LBS. PER SQ. IN.
- NO. 8970

120 Volts 8 Amps

Net Wgt. 8 lbs. THIS TOOL COMPLIES WITH
Sho. Wgt. 10 lbs. O.S.H.A. REQUIREMENTS



HEAVY-DUTY VACUUM CLEANER ACCESSORIES

FOR CURRENT MODELS ON PAGES 28 AND 29, ALSO FOR PREVIOUS MODELS 8910, 8915 AND 8930.

15" CREVICE TOOL NO. 49-90-0400

27" CREVICE TOOL
NO. 49-90-0410

For cleaning behind radiators, other hard to reach corners and crevices.



SHAG RUG ATTACHMENT
NO. 49-90-0800
For Major Floor Tool. Effective deep cleaning of shag rug pile.



WIDE MOUTH GULPER
NO. 49-90-0540
Ideal for use on bare floors or rugs 12" cleaning path. Compression Type, fits on Double Bend Floor Rod No. 49-90-1000.



UTILITY NOZZLE
NO. 49-90-0740
Taper fit utility and upholstery nozzle. Fits 1-1/2" ID hose. 6" cleaning path.



NYLON BRISTLE BRUSH
NO. 49-90-0780
Heavy duty cast aluminum, wide mouth nozzle, 10" cleaning path. Compression Type, fits on Double Bend Floor Rod No. 49-90-1000.



HORSE HAIR BRUSH
NO. 49-90-0750
Heavy duty cast aluminum, wide mouth nozzle, 10" cleaning path. Compression Type, fits on Double Bend Floor Rod No. 49-90-1000.



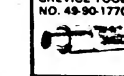
HORSE HAIR BRUSH INSERT REPLACEMENT
NO. 49-90-0700



3" ROUND DUST BRUSH
NO. 49-90-0730
3" round dust brush with nylon bristles. Fits 1-1/2" ID hose.



REPLACEMENT BRUSH INSERT
NO. 49-90-0660
Replacement for round dust brush.



CREVICE TOOL
NO. 49-90-1770

RUBBER BLOWER NOZZLE
NO. 49-90-0460



For blowing dust and dirt out of cracks and inaccessible areas. Excellent for machinery.

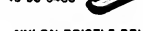
CLAMP-ON NYLON BRISTLE BRUSH WITH BUMPER
NO. 49-90-0480

Attach directly to utility nozzle.



REPLACEMENT NYLON BRISTLE BRUSH INSERT
NO. 49-90-0680

For nylon bristle brush with bumper No. 49-90-0480



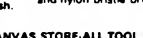
NYLON BRISTLE BRUSH INSERT REPLACEMENT
NO. 49-90-0710



REPLACEMENT BUMPER
NO. 49-90-0690

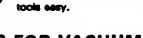


For nylon bristle brush.



PLASTIC BUMPER
NO. 49-90-0720

Replacement for horse hair and nylon bristle brushes.



CANVAS STORE-ALL TOOL POUCH
NO. 49-90-0520
For Models 8911, 8912, 8916 and 8921

Strong durable vinyl covered canvas pouch...makes toting extra tools easy.

20" EXTENSION
NO. 49-90-0510



20" extension with built-in hose end swivel. Used with utility nozzle (49-90-0740) for automotive cleaning. Also desirable when short extension is needed for dust brush attachments (49-90-0730).

CANVAS HOSE 10"
NO. 49-90-0020

Canvas covered, wire reinforced, rubber lined vacuum hose. 1-1/2" ID. Two straight molded cuff ends. Order swivel-end connector separately.

BLACK CANVAS HOSE 10"
NO. 49-90-0030

Canvas covered, wire reinforced, rubber lined vacuum hose. Strong resilient, 1-1/2" ID with two straight molded cuff ends. Order swivel-end connector separately.

BLACK NEOPRENE HOSE
NO. 49-90-0040 15'

Neoprene lined, oil resistant, wire reinforced, 1-1/2" ID with two straight molded cuff ends. Order swivel-end connector separately.

WIRELESS VINYL HOSE
NO. 49-90-0090 7'

Crushproof multi-flex hose with no wire reinforcement. 1-1/2" ID with two straight molded cuff ends. Order swivel-end connector or hose adapter separately.

METAL HOSE 6"
NO. 49-90-0080

For cleaning boiler tubes and furnaces. 1-1/4" OD fits into standard 1-1/2" ID hoses.

SWIVEL-END CONNECTOR
NO. 49-90-0150

Quick connect/disconnect feature makes attaching hoses to MILWAUKEE vacuum cleaners, except Model 8950 and 8955. Fits into 1-1/2" ID hoses. Same as furnished with each unit.

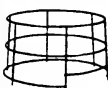
STEEL HOSE CONNECTOR
NO. 49-90-0195

Used to connect 1-1/2" hoses

• One swivel-end connector is furnished as standard equipment with vacuum cleaners 8911, 8912, 8916, 8921, 8925, 8931 and 8935 and meter made 1948 and 1949.

HOSE CARRIER
FOR 14" TANKS
NO. 49-90-0170

FOR 16" TANKS
NO. 49-90-0180



Ideal for neat safe storage of vacuum hoses. Makes moving from one location to another easier.

HEAVY-DUTY ACCESSORIES FOR VACUUMS NOS. 8950 AND 8955 ONLY

VACUUM CLEANER DOLLY
NO. 49-90-1150

For use with Model 8950 ONLY.



TWO PIECE DOUBLE BEND FLOOR WAND
NO. 49-90-1768



Two piece construction for easy storage. Adapts to all Milwaukee 1-1/2" ID hose. Compression fit connector accommodates Master Nozzle No. 49-90-1780, 6" Utility Nozzle No. 49-90-1775 and Crevice Tool No. 49-90-1770. Made of chrome-plated steel.

HOSE ADAPTER NO. 49-90-0115

Adapts 1-1/2" ID hose to Model 8950 and 8955. Same as furnished with each unit.

14" MASTER NOZZLE NO. 49-90-1780

Economical, high impact, durable plastic construction. Master Nozzle with snap lock feature for use with rug shoe and squeegee shoe listed below.

14" RUG SHOE NO. 49-90-1790

For use with Master Nozzle No. 49-90-1780. Ideal for cleaning rugs and carpets.

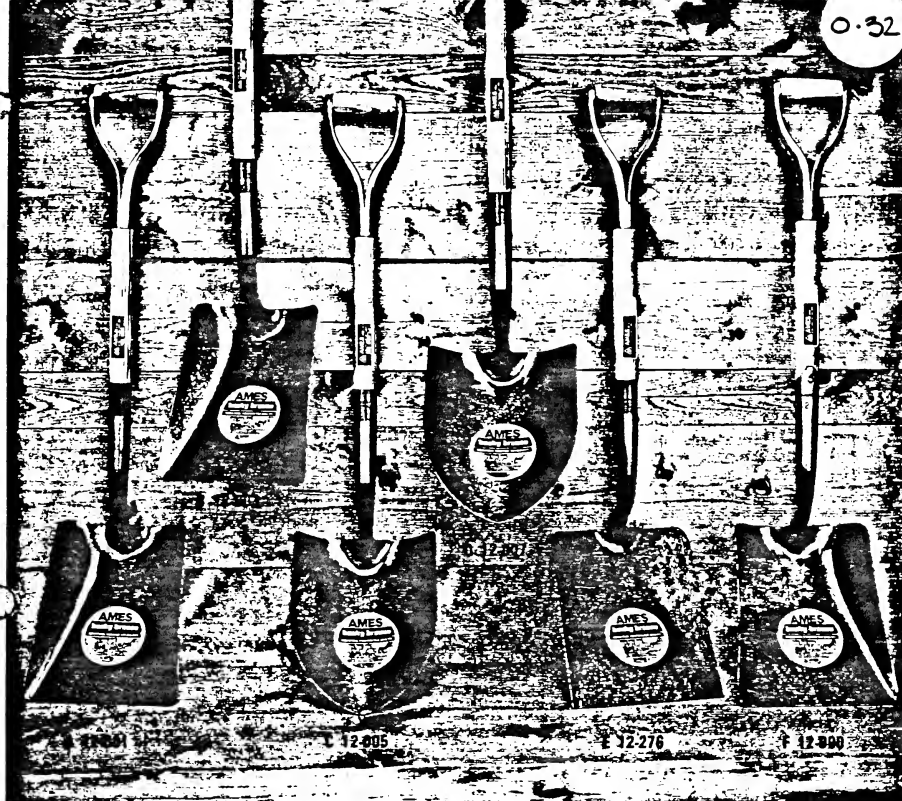
14" SQUEEGEE SHOE NO. 49-90-1788

For use with Master Nozzle No. 49-90-1780. For fast drying of wet floors.

6" UTILITY NOZZLE NO. 49-90-1775

Economical, high impact, durable plastic construction. Fits 1-1/2" ID hose for upholstery cleaning and other small jobs.





SHOVELS

Husky-Bronco/Solid Shank

Finest shovel for industrial and commercial use. Heavy gauge high carbon steel blades are heat treated for strength and durability. Best quality northern ash handles.

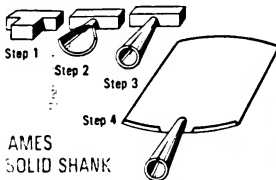
Key	Model	Blade Size	Handle Size	Weight	Length	Description	Part No.
A	12-001	200	2	9 3/4" x 12"	6	31.2	Square Point Shovel. 27" Armor D-Handle. 20-642
B	12-003	201	2	9 3/4" x 12"	6	30.0	Square Point Shovel. 49" Long Handle. 20-625
	12-219	201TS	2	9 3/4" x 12"	6	30.0	Same As Above With Turned Step. 20-625
C	12-005	202	2	9 3/4" x 12"	6	30.0	Round Point Shovel. 27" Armor D-Handle. 20-642
D	12-007	203	2	9 3/4" x 12"	6	29.4	Round Point Shovel. 49" Long Handle. 20-625
	12-257	203TS	2	9 3/4" x 12"	6	29.4	Same As Above With Turned Step. 20-625
E	12-276	208	2	9 3/4" x 11 3/4"	6	31.8	Moulder Shovel. 27" Armor D-Handle. 20-642
	12-282	208	2	9 3/4" x 11 3/4"	6	31.2	Moulder Shovel. 27" Rubber Pein-D.
F	12-900	204ES	2	10" x 12"	6	34.2	Track Shovel. Extended Socket. 27" Armor D-Handle.
	12-901	204ES-TS	2	10" x 12"	6	34.2	Track Shovel. Extended Socket. 27" Armor D-Handle. Turned Step.
	12-913	204	2	10" x 12"	6	35.0	Track Shovel. 34" Malleable D-Top.

SHOVELFACTS

Ames shovels are backed by over 200 years experience in manufacturing quality tools with visible pluses. Our dedication to quality has made us the world's largest shovel manufacturer. Our plan for the future is to continue to offer our customers the quality and selection you have learned to depend on from Ames.

TYPES OF SHOVEL CONSTRUCTION

SOLID SHANK



AMES SOLID SHANK CONSTRUCTION

Blade, shank and socket are forged from one solid bar of steel and the blade is tempered to give it the necessary hardness with proper ductility. The illustrations above show the four principal operations in the forging of solid shank shovels.

CLOSED BACK



Strap is seam welded over the back of the blade to prevent drag and dead weight buildup from mud and dirt. Serves as brace to strengthen frog area. Shovel blade and socket are all one-piece.

PONY



Cutaway view shows Pony Solid Shank. Forged from a solid bar of $\frac{3}{4}$ inch thick red hot steel. Pony's varying thickness puts more steel at points of maximum wear and stress. Result, maximum strength and durability. High grade ash handle, coupled with solid shank construction makes this one of the finest shovels on the market.

HOLLOW BACK SHOVELS and SPADES



Blade and socket are one piece of tempered steel. Ruggedly built for years of service.

SPECIAL FEATURES

AMES EXCLUSIVE ARMOR D-HANDLE

Chrome plated steel D completely encases a wooden D to give the combined strength of steel and wood. Wood core is heavily backed with rugged glue to prevent splitting.

Tough western ash handle to ensure balance, strength, and durability.

Socket top socket, all checked handle, heavy socket and shaft.

Forward curved blades on every model for greater maneuverability.

Lequer coated rubber finish highlights patterned steel blade. Superdurable blade which provides strong hand maneuverability.

BRAND SELECTION CHART

Brand	Shank Type	Weight	Length	Material	Use
Husky Bronco	Solid Shank	Heavy	14	X	Industrial/Contractor Supply
Pony	Solid Shank	Medium	15	X	Industrial/Contractor Supply
Red Edge	Lock Socket	Heavy	14	X	Industrial/Contractor Supply
Featherlite	Lock Socket	Heavy	14	X	Industrial/Contractor Supply
Steel*Lite	Fastback	Medium	16	X	Industrial/Contractor/Homeowners
Peerless-Ram	Hollow Back	Medium	14	1	Industrial/Contractor/Homeowners
Dig-Ezy	Hollow Back	Light	16	1	Homeowner - Quality
American Made	Hollow Back	Light	18	2	Homeowner - Promotional



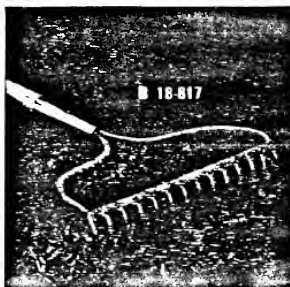
SHOVEL MEASUREMENT



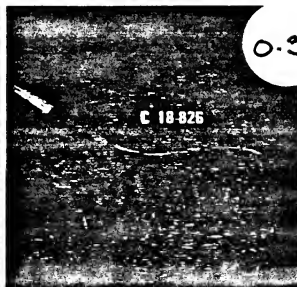
BOW RAKES



A 18-813



B 18-817



C 18-825

0-32

6



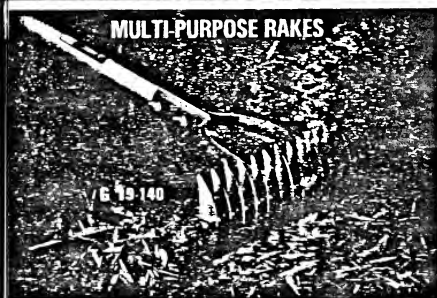
D 18-821



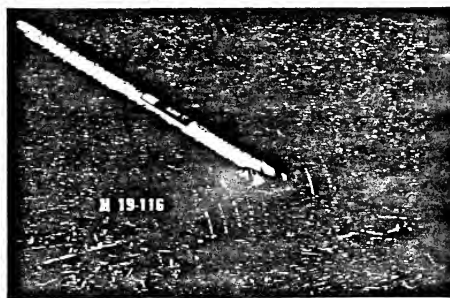
E 18-838



F 18-832



G 19-140



H 19-116

MULTI-PURPOSE RAKES

RAKES Rigid Tine

							Description	20-091
A	18-813	A16RB	16 1/2"	16	6	20.4	Forged Bow Rake. 1-Piece. 60" Handle.	20-091
	18-830	16RB5	16"	16	6	15.0	Welded Bow Rake. 60" Handle.	20-091
B	18-817	R14RB	14"	14	6	18.6	Forged Bow Rake. 1-Piece. 60" Handle.	20-091
C	18-825	S14RB	14"	14	6	15.0	Welded Bow Rake. 54" Handle.	20-091
D	18-821	A14C	14"	14 Curved	6	16.8	Forged Level Head Rake. 66" Handle.	20-093
E	18-828	R14C	14"	14 Curved	6	15.6	Forged Level Head Rake. 60" Handle.	20-093
F	18-838	S14C	14"	14	6	13.2	Level Head Rake. 60" Handle.	20-093
F	18-832	A16L	16 1/2"	16 Straight	6	18.0	Forged Level Head Rake. 66" Handle.	20-093
G	19-140	ALGR	15"	19	3	12.9	Set-Up Adjustable Lawn-Groom' Rake. 54" Handle.	
H	19-116	SLGR	14"	19	6	19.8	Adjustable Push W Pull Rake. 54" Handle.	

A 19-237

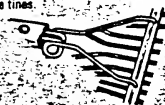
B 19-239

C 19-359

D 19-361

E 19-368

Special reinforcing spring maintains proper tension on the tines.



Bolt/handle assembly tightly locks handle to head.



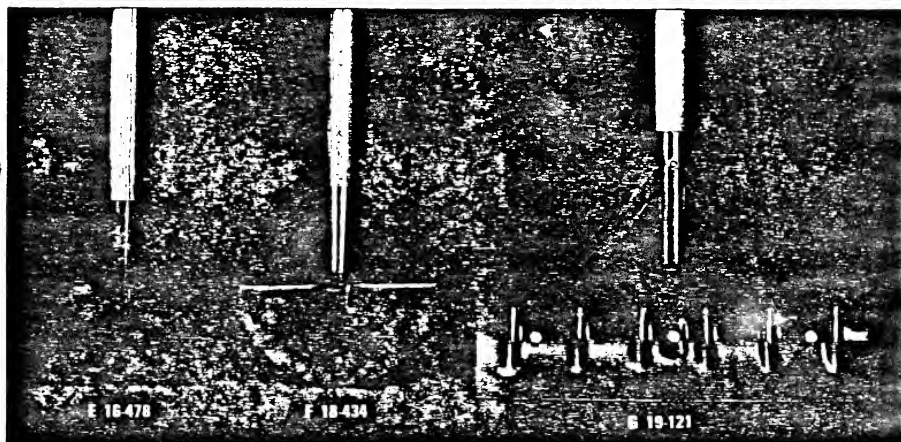
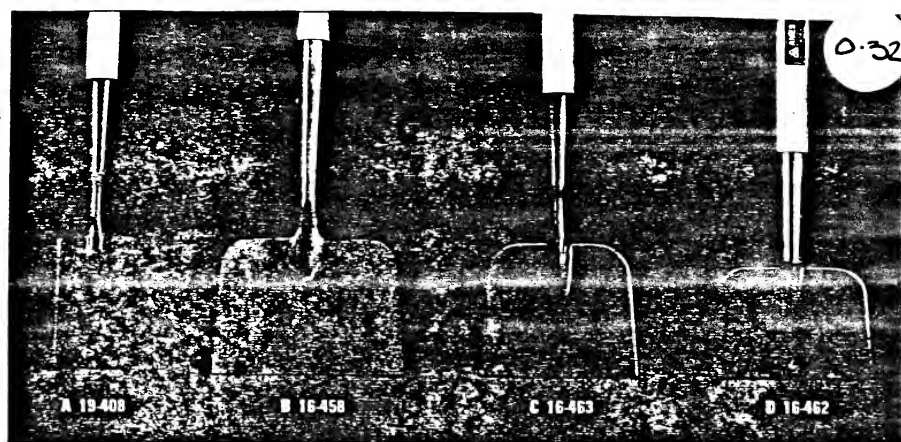
Stress distributor bar allows float independently in stress distributor bar. Prevents tines from twisting and breaking.



F 19-138

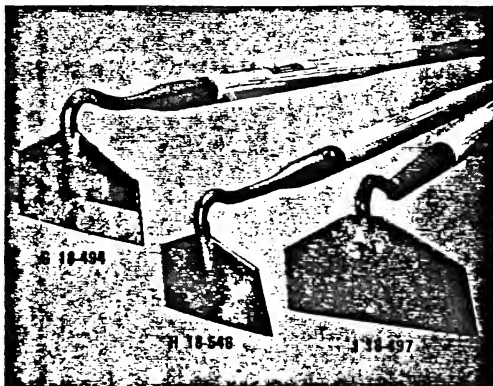
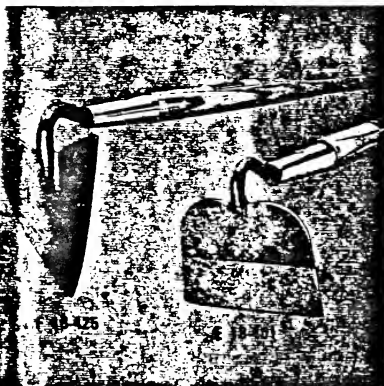
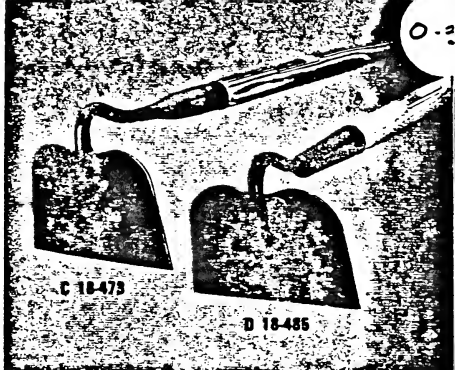
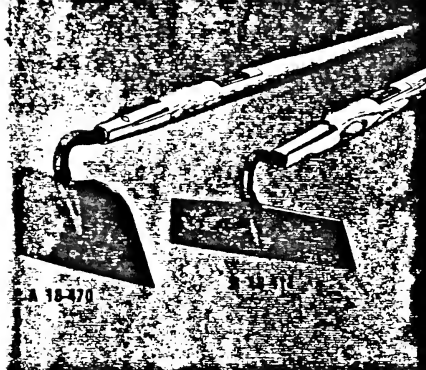
G 19-244

H 19-125



SCRAPERS & EDGERS

Key	Model	Part Number	Blade Size	Weight	Description	Part Number
A	19-408	A3½C	3½" x 6¼"	8	20.4	Heavy Duty Forged Ice Chisel. Excellent for Roofing 48" Handle.
B	16-458	405	8½" x 6"	6	21.0	Solid Shank Sidewalk Scraper 48" Handle. 20-631
C	16-463	427	7" x 6"	6	20.4	"Deluxe" Socket Sidewalk Scraper 48" Handle.
D	16-462	425	7" x 5"	6	16.2	Shank Sidewalk Scraper 48" Handle. 20-154
E	16-478	419	7" x 5"	6	12.6	Welded Sidewalk Scraper 48" Handle.
F	18-434	AFTSH	9" x 4½"	6	18.2	"Deluxe" Forged Shank Turf Edger 48" Handle. 20-154
	18-448	RFTSH	9" x 4½"	6	16.2	"Better" Forged Shank Turf Edger 48" Handle. 20-154
	18-448	STE	9½" x 4½"	6	12.6	"Good" Utility Turf Edger 48" Handle.
G	19-121	AB18	6" x 18"	6	34.2	
	19-122	AB24	6" x 24"	6	39.0	Barn Scraper. 14 Gauge Reversible Blade 60" Handle.



HOES Garden, Nursery and Beet

A	18-470	RG6½	6¼" x 4¼"	8	13.2	Shank Pattern Garden Hoe. 52" Handle.	20-108
B	18-411	RST0	7" x 1¼"	8	9.8	Forged Square Top Onion Hoe. 52" Handle.	20-128
	18-412	RST05	7" x 1¼"	6	10.8	Forged Square Top Onion Hoe. 60" Handle.	20-093
	18-410	SST0	7" x 1¼"	8	9.0	Welded Square Top Onion Hoe. 48" Handle.	
C	18-473	RGS6½	6¼" x 4¼"	8	12.8	Forged Socket Pattern Garden Hoe. 52" Handle.	20-142
D	18-485	S6½	6½" x 4"	6	12.0	Welded Garden Hoe. 48" Handle.	20-128
E	18-401	AFH5	5" x 3¾"	8	10.8	Forged Floral Hoe. 48" Handle.	20-128
F	18-425	AW7	4¾" x 6¾"	8	12.0	Forged Shank Pattern Warren Hoe. 54" Handle.	20-108
	18-428	SW7	4¾" x 6¾"	6	13.8	Welded Warren Hoe. 54" Handle.	
NURSERY AND BEET HOES							
G	18-494	RNS6	6" x 3½"	8	12.6	Forged Socket Pattern Nursery or Beet Hoes. 52" Handle.	20-142
	18-495	RNS7	7" x 3½"	8	13.2		20-142
H	18-548	SNS4F	4" x 3½"	8	12.0	Forged Socket Pattern Nursery/Beet Hoe. 52" Handle.	20-142
	18-547	SNS5F	5" x 3½"	6	12.0	Forged Socket Pattern Nursery/Beet Hoe. 48" Handle.	20-142
	18-458	SNS7F	7" x 3½"	8	12.8	Forged Socket Pattern Nursery/Beet Hoe. 52" Handle.	20-142
I	18-497	SN7	7" x 3¾"	8	12.8	Welded Shank Pattern Nursery/Beet Hoe. 48" Handle.	

13 AMP HEAVY-DUTY SANDER/GRINDERS*

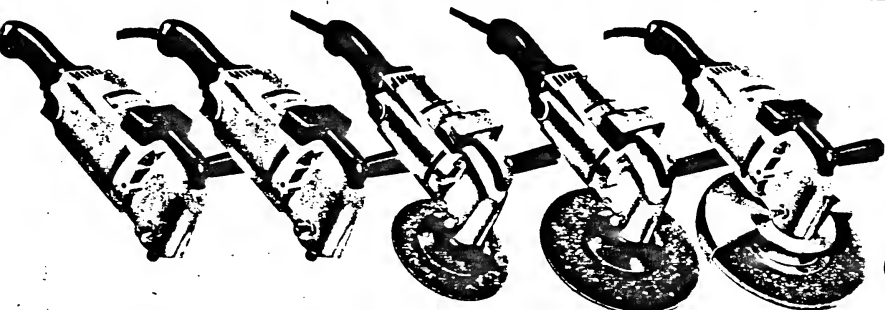
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MILWAUKEE SANDER/GRINDERS MAY BE USED IN GRINDING OPERATIONS. SEE PAGES 66 and 67 FOR

NEW Milwaukee

OUTSTANDING FEATURES COMMON TO BOTH 13 AMP

- NEW SUPER EFFICIENT FAN for cooler operation, longer life.
- SMOOTH RUNNING all ball and roller bearing. Bearings and seals matched to armature speed.
- BALL BEARING MOUNTED ARMATURE is dynamically balanced and vibration free.
- HELICAL GEARING for longer life, quieter operation.
- HEAVY-DUTY ALUMINUM GEAR CASE AND MOTOR HOUSING
- SELF STOPPING LONG LIFE BRUSH SYSTEM stops tool when brushes are worn — prevents damage to commutator. External brush holders permit inspection and replacement of brushes without disassembly of grinders.



13 AMP
5000 RPM
NEW NO. 6052
(OLD NO. 6082)

13 AMP
8000 RPM
NEW NO. 6054
(OLD NO. 6084)

13 AMP
5000 RPM
NEW NO. 6024
(OLD NO. 6022)

13 AMP
5000 RPM
NEW NO. 6064
(OLD NO. 6062)

13 AMP
5000 RPM
NEW NO. 6106
(OLD NO. 6102)

NEW CATALOG NUMBER	OLD CATALOG NUMBER	SPEED RPM	DISC DIAMETER	VOLTS AC-DC	AMPS	MAXIMUM MOTOR POWER OUTPUT H.P.	SPINDLE THREAD SIZE	LENGTH LESS DISC	NET WEIGHT	SHIPPING WEIGHT
6052†	6082	5000	8"	120	13.0	2.25	5/8"-11	18-1/2"	12 lbs.	16-3/4 lbs.
6054†	6084	8000	7"	120	13.0	2.25	5/8"-11	18-1/2"	12 lbs.	16-3/4 lbs.
6024*	6022	5000	7"	120	13.0	2.25	5/8"-11	18-1/2"	13 lbs.	18 lbs.
6064*	6062	5000	8"	120	13.0	2.25	5/8"-11	18-1/2"	13-1/4 lbs.	18 lbs.
6106	6102	5000	8"	120	13.0	2.25	5/8"-11	18-1/2"	15 lbs.	19-3/4 lbs.

† Available in 240 Volts AC-DC. Add 2 after Catalog Number when ordering.
* When used as a grinder, guard must be used for OSHA compliance.

MILWAUKEE ELECTRIC TOOL CORPORATION CERTIFIES THAT THESE TOOLS COMPLY WITH OSHA REQUIREMENTS

STANDARD EQUIPMENT

- FOR MODELS 6052 and 6064—
Less disc assembly and sanding disc. Order all accessories separately.
- FOR MODEL 6024—
7" phenolic resin backing disc assembly and disc retaining nut. One each 26 and 80 grit 7" diameter sanding disc.
- FOR MODEL 6064—
8" phenolic resin backing disc assembly and disc retaining nut. One each 26 and 80 grit 8" diameter sanding disc.
- FOR MODEL 6106—
8" x 1/4" flat rough reinforced grinding disc. Steel guard No. 48-12-0080.

STEEL
CARRYING CASE
FOR MILWAUKEE
SANDER/GRINDERS
NO. 48-96-0875



TYPE "E" GREASE
1 lb. can NO. 48-08-4120

HEAVY-DUTY SANDER ACCESSORIES



CAUTION: ALWAYS USE COMBINATIONS OF BACKING DISCS AS ILLUSTRATED FOR SAFETY AND EFFICIENT OPERATION. WEAR SAFETY GOGGLES.



RUBBER PAD



ABRASIVE SANDING DISC

NEW

SPIRAL DESIGN BACKING PAD AIR COOLED...IDEAL FOR ALL SANDING OPERATIONS ON METAL, PLASTIC, FIBERGLASS ETC.



RUBBER PAD



ABRASIVE SANDING DISC



DISC NUT

PURCHASE DISC SEPARATELY - SEE BELOW



RUBBER PAD



PURCHASE DISC SEPARATELY - SEE BELOW



DISC NUT



RUBBER PAD

STANDARD PHENOLIC DISC



PURCHASE DISC SEPARATELY - SEE BELOW



DISC NUT



RUBBER PAD

DISC SAVER PHENOLIC DISC



PURCHASE DISC SEPARATELY - SEE BELOW



DISC NUT

BACKING DISC ASSEMBLIES

Light, perfectly balanced assemblies provide flexibility for curves and contours. Abrasive discs can be trimmed down to the next smaller diameter to be used with smaller backing discs, affording greater economy.

SPIRAL DESIGN PAD ASSEMBLY

COMPLETE ASSEMBLY
INCLUDES RUBBER PAD AND DISC NUT

Does Not Include Abrasive Sanding Disc

NO. 49-36-3800	7" DIA	MAX. SPEED 7500 RPM
NO. 49-36-3850	9" DIA	MAX. SPEED 6000 RPM

DISC NUT ONLY
NO. 49-40-0360

RUBBER PAD ASSEMBLY

COMPLETE ASSEMBLY
INCLUDES RUBBER PAD AND DISC NUT

Does Not Include Abrasive Sanding Disc

NO. 49-36-3700	7" DIA	MAX. SPEED 7500 RPM
NO. 49-36-3750	9" DIA	MAX. SPEED 7000 RPM

DISC NUT ONLY
NO. 49-40-0360

STANDARD PHENOLIC DISC ASSEMBLIES

Same as furnished with Sander Grinders Nos 6022 and 6062

COMPLETE ASSEMBLY
INCLUDES RUBBER PAD, DISC, AND DISC NUT

Does Not Include Abrasive Sanding Disc

NO. 49-36-6000	7" DIA	MAX. SPEED 7000 RPM
NO. 49-36-6050	9" DIA	MAX. SPEED 7000 RPM

DISC ONLY

Must Be Used With Rubber Pad No. 49-36-3500

NO. 49-80-6000	7" DIA	MAX. SPEED 7000 RPM
NO. 49-80-6050	9" DIA	MAX. SPEED 7000 RPM

RUBBER PAD ONLY

NO. 49-36-3500 MAX. SPEED 7000 RPM

DISC NUT ONLY
NO. 49-40-0360

DISC SAVER PHENOLIC DISC ASSEMBLIES

COMPLETE ASSEMBLY
INCLUDES RUBBER PAD, DISC, AND DISC NUT

Does Not Include Abrasive Sanding Disc

NO. 49-36-6000	7" DIA	MAX. SPEED 7000 RPM
NO. 49-36-6050	9" DIA	MAX. SPEED 7000 RPM

DISC ONLY

Must Be Used With Rubber Pad No. 49-36-3500

NO. 49-80-6010	7" DIA	MAX. SPEED 7000 RPM
NO. 49-80-6060	9" DIA	MAX. SPEED 7000 RPM

RUBBER PAD ONLY

NO. 49-36-3550 MAX. SPEED 7000 RPM

DISC NUT ONLY
NO. 49-40-0360

ABRASIVE SANDING DISCS

PACKED AND SOLD ONLY IN BOXES OF 10



Specialty selected extra hard aluminum oxide grits are applied with plastic adhesive to rigid fiber backing for long life. Waterproof and can be dipped and scrubbed for re-use.

CATALOG NUMBER
(10 PER BOX)

NO. 48-80-2008	16 GRIT
NO. 48-80-2058	24 GRIT
NO. 48-80-2100	36 GRIT
NO. 48-80-2208	80 GRIT
NO. 48-80-2258	80 GRIT

CATALOG NUMBER
(10 PER BOX)

NO. 48-80-2500	16 GRIT
NO. 48-80-2550	24 GRIT
NO. 48-80-2600	36 GRIT
NO. 48-80-2700	80 GRIT
NO. 48-80-2750	80 GRIT

FOR 7" DIAMETER ASSEMBLIES

BOX	16 GRIT	MAX. SPEED 7000 RPM
OF	24 GRIT	MAX. SPEED 7000 RPM
OF	36 GRIT	MAX. SPEED 7000 RPM
OF	80 GRIT	MAX. SPEED 7000 RPM
OF	80 GRIT	MAX. SPEED 7000 RPM

FOR 9" DIAMETER ASSEMBLIES

BOX	16 GRIT	MAX. SPEED 7000 RPM
OF	24 GRIT	MAX. SPEED 7000 RPM
OF	36 GRIT	MAX. SPEED 7000 RPM
OF	80 GRIT	MAX. SPEED 7000 RPM
OF	80 GRIT	MAX. SPEED 7000 RPM

HEAVY-DUTY JIG SAWS

2 MODELS

SINGLE SPEED
3900 STROKES PER MIN.

VARIABLE SPEED
WITH TRIGGER SPEED CONTROL
0 TO 3900 STROKES PER MIN.

MILWAUKEE JIG SAW FEATURES:

- **PIVOTING HEAD**
Cutting head is adjustable—right or left—to full 45° angle... calibrated settings.



- **TURN AND LOCK SHOE**
Shoe quickly adjusts for straight, miter or flush cuts... adaptable for every sawing application.



- **3/4" BLADE STROKE**
- **SAWDUST BLOWER**
KEEPS CUTTING LINES FREE
- **POWERFUL HEAVY-DUTY MOTOR**

ALL BALL AND
ROLLER BEARINGS

TRIGGER SPEED CONTROL

Simply depress trigger for various speeds from 0 to 3900 strokes per min. For selecting a preset speed between 0 and 3900 adjust knurled button in trigger switch and depress trigger. Lock button provided on all models.



**STEEL
CARRYING CASE**
when Purchased
Separately
NO. 48-55-1075

JIG SAW SPECIFICATIONS

CATALOG NUMBER	VOLTS	AMPS	STROKES PER MIN.	LGTH.	W.	HT.	NET WGT. (LBS.)	SWT WGT. (LBS.)
SINGLE SPEED JIG SAW								
6272 With Case	120 AC	2.3	3900	8-1/2"	3-1/2"	8-1/2"	5	14-1/2
6252 Less Case	120 AC	2.3	3900	8-1/2"	3-1/2"	8-1/2"	5	0
VARIABLE SPEED JIG SAW								
6287 With Case	120 AC ONLY	2.3	0-3900	8-1/2"	3-1/2"	8-1/2"	5	14-1/2
6282 Less Case	120 AC ONLY	2.3	0-3900	8-1/2"	3-1/2"	8-1/2"	5	0

Standard equipment includes Jig Saw Blade Card No. 49-22-1160 for wood and metal—a total of 10 blades. Also included are a combination circle and rip guide, two socket wrenches, an extra blade clamp screw and one No. 48-55-4080 key holder.

WRENCH AND SCREW KITS

NO. 48-22-8070 For Jig Saws serial no. 281-11240 (single speed) and above and serial no. 334-1415 (variable speed) and above. Consists of five No. 49-96-0080 3/32" Socket Wrenches for blade clamp, five No. 49-96-0080 3/16" Socket Wrenches for pivoting head and shoe adjustments. Also twenty blade clamp screws No. 06-83-2430.

NO. 48-22-8080 For Jig Saws below serial no. 281-11240 (single speed) and serial no. 334-1415 (variable speed). Consists of five No. 49-96-0080 1/8" Socket Wrenches for blade clamp, five No. 49-96-0080 3/16" Socket Wrenches for pivoting head and shoe adjustments. Also twenty blade clamp screws No. 06-75-1905.

TYPE "A" GREASE NO. 48-08-0600 1/2 Lb. Can

TYPE "A" GREASE NO. 48-08-0600 1 Lb. Can

MILWAUKEE ELECTRIC TOOL CORPORATION CERTIFIES THAT THESE TOOLS COMPLY WITH O.S.H.A. REQUIREMENTS

JIG SAW BLADES

UNIVERSAL 1/4" TANG FITS
MOST BRANDS OF JIG SAWS

CATALOG
NUMBER
(BOX OR PKG.)

LGTH
(IN.)

TEETH
PER
INCH

QTY.
PER
PKG.

MILWAUKEE JIG-SAW BLADES
RECOMMENDED FOR CUTTING

NEW! For Prices on Bulk
Packaged Jig
Saw Blades

METAL CUTTING...High Speed Steel

48-42-0100	2-3/4	12	5	Steel to 1/8", non-ferrous metals to 1/4", plastics, asbestos, fiberglass, rigid conduit, hard rubber and fiber.
48-42-0101	2-3/4	12	5	Same as above. 25% thicker for most severe applications.
48-42-0120	2-3/4	18	5	Metals 18 Ga. to 10 Ga., tubing, plastics.
48-42-0140	2-3/4	21	5	Metals lighter than 18 Ga., thin wall tubing, slate, formica.

WOOD CUTTING...GENERAL PURPOSE...High Carbon Steel

48-42-0200	3-1/8	8	5	Pocket and roughing cuts on heavier sections. Fiberboard, asbestos, asphalt.
48-42-0220	3-1/8	8	6	Same as 8 tooth, but for smoother finish.
48-42-0240	3-1/8	8	5	Same as above except taper ground for smoothest sawing.

WOOD CUTTING...FLUSH CUTTING...High Carbon Steel

48-42-0300	3-5/8	8	4	Same use as 8 tooth General Purpose. Saws up to a wall.
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WOOD CUTTING...DELUXE...High Speed Steel

48-42-0400	3-1/8	8	5	"Shear tooth" for fast roughing work on light and medium sections. Pocket cuts.
48-42-0420	3-5/8	8	4	Same as above for fast roughing work on heavier sections.

WOOD CUTTING...DELUXE TAPER GROUND...High Speed Steel

48-42-0600	3-5/8	8	5	Fast finish work on medium sections (1/2"-3/4") of plywood, formica, wood.
48-42-0620	3-5/8	8	4	Fast finish work on medium to heavy sections (1/2"-3/4").
48-42-0640	3-5/8	10	5	Fast finish work on light sections (1/4") thick of plywood, formica, wood.
48-42-0660	3-5/8	10	4	Fast finish work on light to medium sections (1/4"-3/8").
48-42-0680	3-5/8	8	5	Tight smooth scroll work. No distortion on curves. Saws plywood, formica, decorative veneers, plastics, etc. Thickness to 3/4".
48-42-0620	3-5/8	10	5	Same as above to thicknesses of 1/2".

WOOD CUTTING...DELUXE TAPER GROUND...High Carbon Steel

48-42-0640	3-1/4	12	5	Reverse tooth for smooth finish on top surface. Saws plywood, formica, decorative veneers, plastics, etc.
48-42-0650	2-3/4	12	5	Wavy set, extra thin for tight smooth scroll work.

KNIFE CUTTING...High Carbon Steel

48-42-0700	2-1/2	0	5	Cuts insulating material, leather, rubber, cardboard, sponge, felt, acoustical tile.
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ABRASIVE MATERIALS...Medium Grit Tungsten Carbide

48-42-0800	2-7/8	0	4	Plywood, hardwood veneer, fiberglass, (polyesters, epoxies, melamines, silicones), ceramic tile, cast stone, slate, clay pipe, carbon, brick, chalkboard.
48-42-0810	4	0	4	Same as above. Flush cuts to a wall.

ABRASIVE MATERIALS...High Speed Steel

48-42-0850	3-5/8	8	5	Straight cutting in fiberglass, tough abrasive material, asbestos, 1/8"-5/8" non-ferrous metals, synthetics up to 3/4" and plasterboard.
48-42-0880	3-5/8	8	5	Same as above but thinner for fast scroll cutting.

JIG SAW BLADE MERCHANDISER

NO. 49-22-1067

Attractive red, white and black header sign on a sturdy red metal frame. 24 product hooks will hold over 100 packages of MILWAUKEE Jig Saw Blades. Complete with 54 packages of blades as listed below.

CATALOG NUMBER	NUMBER OF PACKAGES
48-42-0100	4
48-42-0101	4
48-42-0120	4
48-42-0140	4
48-42-0200	3
48-42-0220	3
48-42-0240	3
48-42-0300	2
48-42-0400	2
48-42-0420	2
48-42-0500	2
48-42-0520	2

CATALOG NUMBER	NUMBER OF PACKAGES
48-42-0540	2
48-42-0580	2
48-42-0600	2
48-42-0620	2
48-42-0640	2
48-42-0650	2
48-42-0700	1
48-42-0800	1
48-42-0810	1
48-42-0850	2
48-42-0880	2

Milwaukee



JIG SAW BLADE CARD
NO. 49-22-1160

Same as furnished with each Jig Saw. Consists of one each Nos. 48-42-0100, 0120 and 0140 for metal and Nos. 48-42-10200, 0220, 0240, 0300, 0400, 0600 and 0640 for wood—a total of 10 blades.



HEAVY-DUTY BELT SANDERS

Milwaukee

2 MODELS

3" x 24" MODEL NO. 5900

4" x 24" MODEL NO. 5910

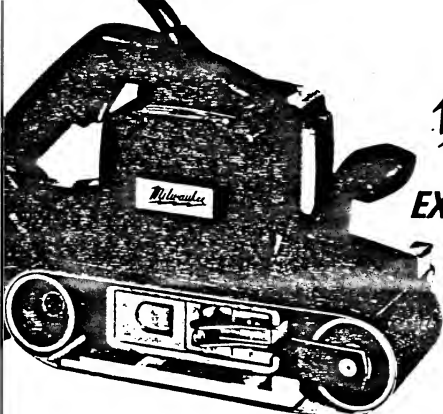
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4" MODEL SANDS FLUSH

EXCLUSIVE: FAST CONVERSION TO DUST COLLECTION SYSTEM

- BELT DRIVE MINIMIZES GEAR MAINTENANCE
- NO OIL

- Powerful MILWAUKEE motor.
- Sturdy durable construction...excellent balance.
- Simple positive adjustment of tracking.
- Easy to change belt.
- Positive brush stop...prevents spring from damaging commutator.
- High, out of way, cord position. Heavy duty strain relief.
- Easy access to switch and lock button.
- Heavy-duty wear plate bar for long life.



CATALOG NUMBER	BELT SPEED S FPM	BELT SIZE	VOLTS	AMPS	NET WGT LBS	SHR WGT LBS
5900	1700	3"	120	9.5	15-3/4	19
5910	1700	4"	120	9.5	16	19

STANDARD EQUIPMENT: Cat Nos 5900 and 5910 are furnished with (1) 120 grit sanding belt

MILWAUKEE ELECTRIC TOOL CORPORATION CERTIFIES THAT THESE TOOLS COMPLY WITH O.S.H.A. REQUIREMENTS

VACUUM BAG KITS

NO. 48-09-0100 For 3" Model 5900

NO. 48-09-0200 For 4" Model 5910

Both kits consist of vacuum bag, rear motor housing cover, bolt, vacuum heel and gasket. Be sure to order proper kit for 3" or 4" model.

VACUUM HOSE KIT

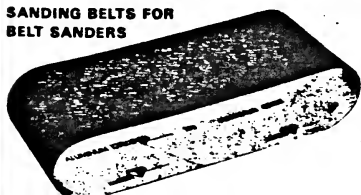
NO. 48-09-0210 For both 3" and 4" Models

Kit consists of 30' hose; 49-90-1760, with 1-1/2" cuff for easy attachment to any MILWAUKEE Vacuum Cleaner, rear motor housing cover, gasket, bolt, tube assembly, 3" and 4" vacuum heel.

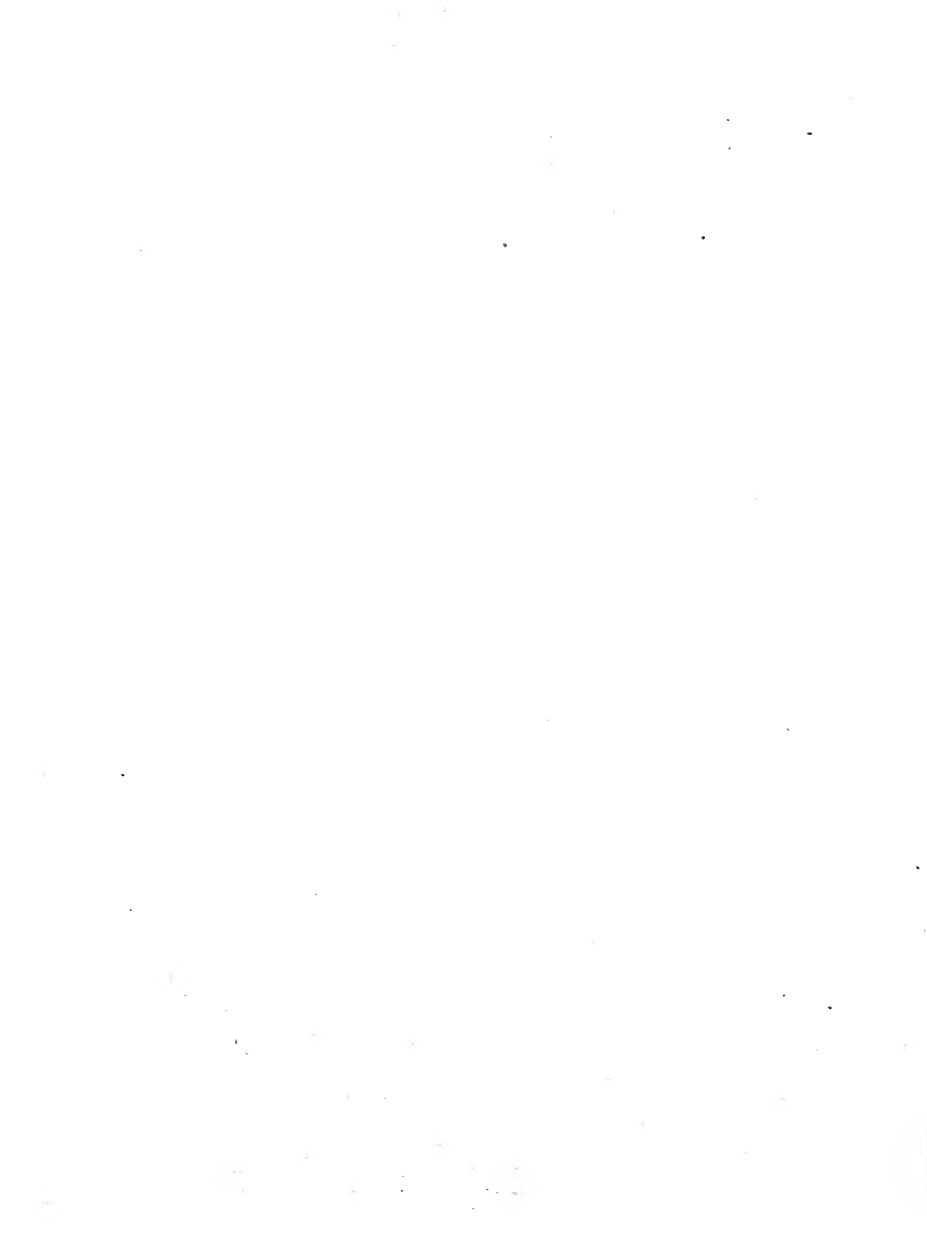


SEE PAGES 28 AND 29 FOR MILWAUKEE VACUUM CLEANERS

SANDING BELTS FOR BELT SANDERS



CATALOG NUMBER	SIZE	BELTS PER PKG.	GRIT	TYPE	USE
49-37-3038	3 x 24	10	36	COARSE	For fast sanding of wood and non-ferrous material.
49-37-4038	4 x 24	10	36		
49-37-3060	3 x 24	10	80	MEDIUM	For general smoothness of wood or metal.
49-37-4060	4 x 24	10	80		
49-37-3120	3 x 24	10	120	FINE	For finish work on wood or metal.
49-37-4120	4 x 24	10	120		



HEAVY-DUTY ROUTERS

3 MODELS:

1.00 HP 8 AMPS 1.50 HP 10 AMPS 2.00 HP 12 AMPS

- POWERFUL, LIGHTWEIGHT ROUTERS DESIGNED FOR EXTRA HEAVY-DUTY JOBS

- FUNCTIONAL TRIGGER-HANDLE GROUPING
- OUT-OF-WAY ELECTRIC CORD
- FLAT TOP FOR STEADY POSITIONING

For changing bits, removing base or measuring bit for depth of cut.

ALL BALL BEARINGS

CATALOG NUMBER	VOLTS AC	AMPS	MAXIMUM POWER OUTPUT H.P.	NO. LOAD SPEED RPM	COLLET CAPACITY	SUB BASE DIA.	OVER-ALL HGT.	NET WGT. LBS.	SHPT. WTS. LBS.
5620	120	8	1.00	23,000	1/4"-3/8"	8"	8"	8	10
5660*	120	10	1.50	24,500	1/4"-3/8"-1/2"	8"	8"	8-1/2	11
5680	120	12	2.00	26,000	1/4"-3/8"-1/2"	8"	8"	8-3/4	11-1/4

* Available in 240 Volts AC. Add -2 after Catalog Number when ordering. See price sheet.

STANDARD EQUIPMENT

1.00 H.P. ROUTER model 5620 includes a 1/4" collet (cat. no. 48-66-0980), a 7/8" open end wrench (cat. no. 49-54-0070), a 1" open end wrench (cat. no. 49-54-0075) and router base (cat. no. 48-10-0070).
1.50 H.P. ROUTER model 5660 includes a 1/4" collet (cat. no. 48-66-0985), a 7/8" open end wrench (cat. no. 49-54-0070), a 1-1/4" open end wrench (cat. no. 49-54-0100) and router base (cat. no. 48-10-0070).
2.00 H.P. ROUTER model 5680 includes a 1/2" collet (cat. no. 48-66-1010), 7/8" open end wrench (cat. no. 49-54-0070), a 1-1/4" open end wrench (cat. no. 49-54-0100) and router base (cat. no. 48-10-0070).

MILWAUKEE ELECTRIC TOOL CORPORATION CERTIFIES THAT THESE TOOLS COMPLY WITH O.S.A. REQUIREMENTS

MOTOR

BASE ASSEMBLY

- ACCURATE SIMPLE DEPTH ADJUSTMENT
Adjusting ring, marked in 1/64" graduations, permits friction-free operation with locking device to maintain depth-of-cut.

- HEAVY-DUTY SUB BASE
With large openings for maximum visibility.

COLLETS FOR MILWAUKEE ROUTERS

- 1.00 H.P. MODEL -

NO. 48-66-0980* 1/4" COLLET

NO. 48-66-0990* 3/8" COLLET

* For 1.00 H.P. Model with serial no. above 451-12247

NO. 48-66-0930 1/4" COLLET

NO. 48-66-0940 3/8" COLLET

- 1.50 and 2.00 H.P. MODEL -

NO. 48-66-0985* 1/4" COLLET

NO. 48-66-1000* 3/8" COLLET

NO. 48-66-1010* 1/2" COLLET

* For 1.50 H.P. Model with serial no. above 452-19550 and 2.00 H.P. Model with serial no. above 608-2556

NO. 48-66-0945 1/4" COLLET

NO. 48-66-0950 3/8" COLLET

NO. 48-66-0955 1/2" COLLET

MOTORS ONLY

NO. 5610 Motor for 1.00 H.P. Unit

NO. 5650* Motor for 1.50 H.P. Unit

Motor includes 2 wrenches, 1/4" collet, adjusting ring and power cord.

* Available in 240 Volts AC. Add -2 after Catalog Number when ordering.

See price sheet.

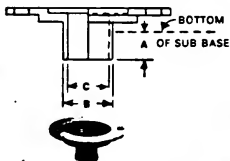
NO. 5670 Motor for 2.00 H.P. Unit

Motor includes 2 wrenches, 1/2" collet, adjusting ring and power cord.

BASE ASSEMBLY ONLY NO. 48-10-0070 For 1.00, 1.50 and 2.00 H.P. units. Base includes 2 handles, sub base and wing lock nut.

GENERAL TEMPLATE GUIDES AND HINGE BUTT GUIDE

For 1.00, 1.50 and 2.00 H.P. Routers (Includes 2 screws)



TEMPLATE	A	B	C	CATALOG NUMBER
GENERAL	5/16"	1/4"	3/16"	49-54-0500
GENERAL	3/16"	3/8"	5/16"	49-54-0510
GENERAL	5/16"	7/16"	3/8"	49-54-0520
GENERAL	3/8"	5/8"	9/16"	49-54-0530
HINGE BUTT	7/16"	5/8"	9/16"	49-54-0550



STEEL CARRYING CASE

STEEL CARRYING CASE FOR MILWAUKEE ROUTERS
NO. 48-55-0810

ROUTER GUIDE NO. 49-54-0200

For straight cuts. Includes Trammel Point Assembly

TRAMMEL POINT ASSEMBLY NO. 49-54-0210

For cutting circles

VENEER TRIM KIT NO. 49-54-0300

For cutting hard plastic laminates. Come complete with base, mounting screws, combination straight and bevel trim bit and extra nylon guide



ROUTER GUIDE

TRAMMEL POINT ASSEMBLY



VENEER TRIM KIT



DOOR AND JAMB BUTT TEMPLATE KIT

DOOR AND JAMB BUTT TEMPLATE KIT NO. 49-54-0100

Includes carrying case, template, link rail assemblies, template nails and end gauges. Will mortise any 6", 6 1/2" or 7" door and any hinge size 2-1/2" to 5-1/2". Kit includes detailed instructions for proper use. Additional template nails (12 per package) are available (cat. no. 49-54-0600). Order hinge butt template guide (cat. no. 49-54-0550) separately.

CARRYING CASE ONLY FOR DOOR AND JAMB BUTT KIT NO. 48-55-0800

OPEN END WRENCHES (See Standard Equipment)

7/8" OPEN END WRENCH CAT. NO. 49-54-0070

1" OPEN END WRENCH CAT. NO. 49-54-0075

1-1/8" OPEN END WRENCH CAT. NO. 49-54-0080

1-1/4" OPEN END WRENCH CAT. NO. 49-54-0100

Milwaukee

MILWAUKEE ROUTER BITS are a select line, made from high-speed steel, carbide tipped and solid carbide steel. Each bit has been carefully evaluated and approved for routing applications with MILWAUKEE routers. Double-ground edges, consistent matching contours, high speed geometry and critical hardness control all add up to maximum accuracy and economy.

STRAIGHT BITS—TWO FLUTES

For all general purpose routing (frabbing, grooving, dedding, etc.) Smooth finish cuts. Use long shank bits where nature of cut requires longer shank extension.

HIGH SPEED STEEL

CATALOG NUMBER	A IN.	B IN.	C IN.	D IN.
48-23-0050	1/4	5/8	1	1/4
48-23-0058	5/16	3/4	1-1/4	1/4
48-23-0070	3/8	3/4	1	1/4
48-23-0080	1/2	3/4	1	1/4
48-23-0085	9/16	1	1-1/4	1/4
48-23-0090	5/8	5/8	1	1/4
48-23-0100	3/4	5/8	1	1/4

CARBIDE TIPPED

CATALOG NUMBER	A IN.	B IN.	C IN.	D IN.
48-23-5055	1/4	5/8	1	1/4
48-23-5058	1/4	7/8	1-1/4	1/4
48-23-5065	5/16	7/8	1-1/4	1/4
48-23-5070	3/8	1	1-1/2	1/4
48-23-5080	1/2	1	1-1/2	1/4
48-23-5141	1/2	1-1/4	1-3/8	1/2
48-23-5142	1/2	2	1-7/8	1/2
48-23-5080	5/8	3/4	1-1/4	1/4
48-23-5100	3/4	3/4	1-1/4	1/4
48-23-5150	3/4	3/4	1-3/8	1/2

COMBINATION STRAIGHT AND 22° BEVEL TRIM BIT

Combines 22° bevel trim and flush trim cuts in one bit

CARBIDE TIPPED

CATALOG NUMBER	A DEGREES	O IN.
48-23-6715	22	1/4

7-1/2° BEVEL TRIMMER

With pilot. For finish trim edge on plastic laminate doors, tables and furniture.

SOLID CARBIDE

CATALOG NUMBER	A DEGREES	C IN.	D IN.
48-23-5195	7-1/2	1-5/8	1/4

FLUSH TRIM BIT

With pilot. Produces square, flush edge on plastic laminates.

SOLID CARBIDE

CATALOG NUMBER	A IN.	C IN.	D IN.
48-23-5235	1/4	1-5/8	1/4

PROVINCIAL DESIGN VEINER BITS

Most practical for veining designs on panels, cabinet doors and furniture.

SOLID CARBIDE

CATALOG NUMBER	A IN.	C IN.	D IN.
48-23-5296	1/8	1-1/2	1/4
48-23-5300	3/16	1-1/2	1/4

HELIX LAMINATE TRIMMERS

Designed to force the laminate against backing for chip free cuts—eliminates surface flake out. Replaceable ball bearing pilot.

CARBIDE TIPPED

CATALOG NUMBER	TYPE OF CUT	A IN.	C IN.	D IN.
48-23-6700	Flush	3/4"	5/8	1
48-23-6718	15°	3/4"	3/8	1

*Replaceable Bearing 48-54-1050.

TWO WING SLOTTING CUTTERS

Used for slotting plywoods and core boards for "T" moldings.

CARBIDE TIPPED

CATALOG NUMBER	A IN.	B IN.	C IN.
48-23-8000	1/16	1-7/8	5/16
48-23-8020	3/32	1-7/8	5/16
48-23-8030	1/4	1-7/8	5/16

*Stiffening Collars included with Slotting Cutters—two each for 1/16", 3/64" and 3/32" and one for 1/4".

NOTE

USE ABOVE WITH SLOTTING CUTTER ARBOR

Catalog No. 48-23-8050

Includes 1/4" shank Slotting Cutter Arbor, Nut, Washer and Locking. Replacement Arbor Bearing No. 48-54-1080.

COMBINATION PILOT PANEL BITS WITH DRILL POINTS—SINGLE FLUTE

For trimming veneer and for template panel routing.

HIGH SPEED STEEL

CATALOG NUMBER	A IN.	B IN.	C IN.	D IN.
48-23-1010	1/4	3/4	1	2-5/8
48-23-1015	3/8	7/8	1	3

CARBIDE TIPPED

CATALOG NUMBER	A IN.	B IN.	C IN.	D IN.
48-23-6000	1/4	3/4	1-1/4	2-5/8
48-23-6020	3/8	7/8	1-1/4	3

DOWN SPIRAL PILOT PANEL BITS WITH DRILL POINTS

For cutting aluminum sheet, plywood, wall panels, insulation sheathing and other synthetic materials.

HIGH SPEED STEEL

CATALOG NUMBER	A IN.	B IN.	C IN.	D IN.
48-23-1020	1/4	3/4	2-5/8	1/4
48-23-1025	3/8	7/8	3-1/2	3/8
48-23-1030	1/2	1-3/4	4-1/2	1/2

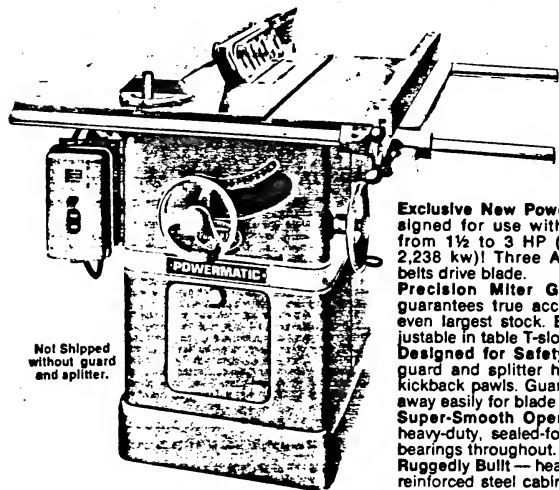
ROUTER BITS CONTINUED ON PAGE 60

ROUTER BIT MERCHANDISER NO. 48-22-0100

Attractive red, white and black header sign on a sturdy metal frame. 24 product hooks will hold over 100 packages of MILWAUKEE Router Bits. Complete with 24 packages of bits as listed below.

CATALOG NUMBER	DESCRIPTION
48-23-0050	1/4 IN TWO FLUTES STRAIGHT BIT—High Speed Steel
48-23-0070	3/8 IN TWO FLUTES STRAIGHT BIT—High Speed Steel
48-23-0080	1/2 IN TWO FLUTES STRAIGHT BIT—High Speed Steel
48-23-0100	3/4 IN TWO FLUTES STRAIGHT BIT—High Speed Steel
48-23-0220	1/2 IN TWO FLUTES CORNER BIT—High Speed Steel
48-23-0320	3/8 IN TWO FLUTES COVE BIT—High Speed Steel
48-23-0430	3/8 IN CORNER ROUNDING BIT—High Speed Steel
48-23-0520	1/4 IN TWO FLUTES BEADING BIT—High Speed Steel
48-23-0600	3/8 IN V-GROOVING BIT—High Speed Steel
48-23-0810	1/4 IN ROMAN OGEE BIT—High Speed Steel
48-23-0910	8/32 IN OGEE BIT—High Speed Steel
48-23-1010	1/4 IN COMBINATION PILOT PANEL BIT—High Speed Steel
48-23-1020	1/4 IN DOWN SPIRAL PILOT PANEL BIT—High Speed Steel
48-23-1120	1/2 IN HINGE MORTISING BIT—High Speed Steel
48-23-1200	1/2 IN TWO FLUTES CHAMFER BIT—High Speed Steel
48-23-1310	8/16 IN COVETAK BIT—High Speed Steel
48-23-1410	3/8 IN RABBETING BIT—High Speed Steel
48-23-5055	1/4 IN TWO FLUTES STRAIGHT BIT—Carbide Tipped
48-23-5070	3/8 IN TWO FLUTES STRAIGHT BIT—Carbide Tipped
48-23-5080	1/2 IN TWO FLUTES STRAIGHT BIT—Carbide Tipped
48-23-5235	1/4 IN FLUSH TRIM BIT—Solid Carbide
48-23-5295	1/8 IN PROVINCIAL DESIGN VEINER BIT—Solid Carbide
48-23-6020	3/8 IN COMBINATION PILOT PANEL BIT—Carbide Tipped
48-23-6100	1/2 IN HINGE MORTISING BIT—Carbide Tipped

OUTSTANDING PERFORMANCE



Not Shipped
without guard
and splitter.

Exclusive New Power — designed for use with motors from 1½ to 3 HP (1,119 to 2,238 kw)! Three A-Section belts drive blade.

Precision Miter Gauge — guarantees true accuracy on even largest stock. Easily adjustable in table T-slots.

Designed for Safety — saw guard and splitter have anti-kickback pawls. Guard swings away easily for blade change.

Super-Smooth Operation — heavy-duty, sealed-for-life ball bearings throughout.

Ruggedly Built — heavy-gauge reinforced steel cabinet. Basic parts steel or cast iron.

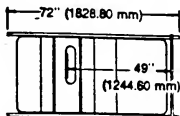


Table with extension sections and 72" (1828.80 mm) rails for cutting 49" (1244.60 mm) to right of saw blade. (OPTIONAL.)



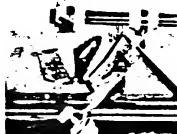
Fence Adjustment Fast and Sure from either side with Vernier control knob and top-reading front guide bar calibrations. Upper knob locks rear of fence. Fence is precision machined cast iron with tubular steel guide bars. Standard guide rails provide 25" (635.00 mm) cut to right of blade.



Individual action of guard sides cover blade during any and all cutting operations.



Overarm guard (optional) with 'hide away' heavy duty splitter.



As blade tilts, overarm guard sides form stationary cage to guard blade.



Wide Slanted Trunnion precision machined from heavy-duty grey iron castings. Maintains perfect alignment for easy hand-wheel worm-gear adjustment. Exclusive C-flange motor mount receives weight at trunnion pivot.



Extra Capacity—10" (254.00 mm) blade cuts stock up to 3¼" (79.38 mm) at 90° ranging to 2¼" (53.98 mm) cut at 45° position.



Extra Cut-off Capacity table in front of blade is full 15" (381.00 mm) at 1" (25.40 mm) cut.



Miter Cut Accuracy—miter gauge adjusts easily, extends beyond table for bigger stock.



Added Safety—blade tilts away from fence to guard against possible binding of material against fence.

NOTE: Guard removed on lower four pictures for illustration purpose only.

POWERMATIC

MODEL
66

10" TILTING ARBOR
SAW

FEATURES

TABLE: Standard table with extensions measures 28" x 38" (711.20 mm x 965.20 mm), accurately machined and reinforced with ribs to hold a true surface. A 4" (101.60 mm) insert plate provides ample room for removing saw blade or guide head.

T-SLOTS: An excellent safety and accuracy feature, the T-slots prevent miter gauge from falling when making wide cut-off.

ARBOR: The 1/2" (15.88 mm) arbor is mounted in large sealed ball bearings requiring no lubrication and is driven by three A-section belts for maximum power. Arbor sits away from rip fence for safer operation.

SAW BLADE: 10" (254.00 mm) combination saw blade fits 45° with a 2 1/4" (54.96 mm) cut at this position. At 90° the saw cuts a full 3 1/4" (79.38 mm) for heavy-duty work.

FENCE: The precision machined, cast iron fence locks on front and back on two tubular guide rails assuring rigid support. Front rail is equipped with an easy-to-read, graduated scale. Fence adjustment is accomplished by means of a steel pinion operating in guide rail rack.

SAW GUARD: The rigid saw guard and splitter is fitted with anti-kickback pawls. Guard out of way when not in use.

MOTOR MOUNT: An exclusive new trunnion accommodates a standard C-frame which mounts on the saw arm pivot shaft and does not place weight on the saw arm. It mounting relieves the saw arbor of motor weight, making it very easy to raise and is blade.

POWER REQUIREMENTS: The saw is designed for motors from 2 to 3HP (1.119 to 2.238 kW) in either 3 or 1-phase. For light and medium work, 2HP (1.492 kW) is sufficient. For heavy cutting, 3 HP (2.238 kW) is recommended.

MODEL 66 BASIC TILTING ARBOR SAWS

- 1660010—10" Tilting Arbor Saw equipped with rip fence, miter gauge, 48" (1219.20 mm) guide rails, extension wings, combination blade guard, splitter with anti-kickback pawls, wrenches, belts, motor cover and motor pulley. Less Motor and Controls.
- 1660030—10" Tilting Arbor Saw, equipped with rip fence, miter gauge, 72" (1828.80 mm) guide rails, cast iron extension wings for ripping 49" (1244.60 mm) to right of blade, combination blade, blade guard, splitter with anti-kickback pawls, wrenches, belts, motor cover and motor pulley. Less Motor and Controls.
- 1660050—10" Tilting Arbor Saw, equipped with no fence, miter gauge, 72" (1828.80 mm) guide rails, steel extension wings for ripping 49" (1244.60 mm) to right of blade, combination blade, blade guard, splitter with anti-kickback pawls, wrenches, belts, motor cover and motor pulley. Less Motor and Controls.
- 1660080—Same as 1660010 except with 72" (1828.80 mm) rails in lieu of standard.
- 1660020—Same as 1660010 except with overarm guard in lieu of standard.
- 1660030—Same as 1660030 except with overarm guard in lieu of standard.
- 1660040—Same as 1660050 except with overarm guard in lieu of standard.
- 1660050—Same as 1660010 except with 72" (1828.80 mm) rails and overarm guard in lieu of standard.
- 1660060—10" Tilting Arbor Saw equipped with production fence, miter gauge, cast iron extension wings to rip 25 1/4" to right of blade, combination blade guard and

- splitter with anti-kickback pawls, wrenches, belts, motor cover and motor pulley less motor and controls.
- 1660070—10" Tilting Arbor Saw equipped with production fence, miter gauge, 1 extension wings to rip 47" to right of blade, extension support leg, combination blade, blade guard and splitter with anti-kickback pawls, wrenches, belts, motor cover and motor pulley less motor and controls.
- 1660080—10" Tilting Arbor Saw equipped with production fence, miter gauge, 1 extension wings to rip 25 1/4" to right of blade, combination blade, overarm guard and splitter with anti-kickback pawls, wrenches, belts, motor cover and motor pulley less motor and controls.
- 1660090—10" Tilting Arbor Saw equipped with production fence, miter gauge, 1 extension wings to rip 47" to right of blade, extension support leg, combination blade, overarm blade guard and splitter with anti-kickback pawls, wrenches, belts, motor cover and motor pulley less motor and controls.
- 1660700—10" Tilting Arbor Saw equipped with Pan'l Handler to handle 4" x 8" production fence, miter gauge, combination blade, blade guard and splitter with anti-kickback pawls, wrenches, belts, motor cover and motor pulley stop-start switch less motor and controls. (select magnetic controls)

MOTORS FOR USE WITH MODEL 66 T.A. SAWS

- 1 Phase**
- 6471723—2 HP (1.492 kw), 60 Hz, 3600 RPM (376.99 rad/s), 115/230V, 145TC frame, TEFC.
- 6472028—3 HP (2.238 kw), 60 Hz, 3600 RPM (376.99 rad/s), 230V, 145 TC frame, TEFC. Requires magnetic control.
- 3 Phase**
- 6471719—2HP (1.492 kw), 60 Hz, 3600 RPM (376.99 rad/s), 200V, TEFC, 145 TC frame

- 6471720—2 HP (1.492 kw), 80 Hz, 3600 RPM (376.99 rad/s), 230/460V, TEFC frame.
- 6472024—3 HP (2.238 kw), 60 Hz, 3600 RPM (376.99 rad/s), 200V, TEFC, 145 TC. Requires magnetic control.
- 6472025—3HP (2.238 kw), 60 Hz, 3600 RPM (376.99 rad/s), 230/460V, TEFC frame. Requires magnetic control.

CONTROLS FOR USE WITH MODEL 66 T.A. SAWS

- 1 Phase**
- 2398044—Magnetic Controls, 115/230V.
- 2398155—Pushbutton Switch, 115/230V. (for 2hp motors only)
- *2398485—Magnetic Controls, 115/230V, w/24v transformer.
- 3 Phase**
- 2398051—Magnetic Controls, 200/230/460/575V.

- 2398154—Pushbutton Switch, 200/230/460/575V (for 2hp motors only)
- 2398230—JIC Controls, 200/230/460/575V
- *2398480—Magnetic Controls, 200/230/460/575V, w/24v transformer
- *100003—Conduit in lieu of standard wiring
- *May be specified with 110v transformer.

OPTIONAL ACCESSORIES

- 2104016—Motor Cover with screws, Wt. 9 lbs. (4.1 kg).
- 2250116—Blade Guard and Splitter Assembly, Wt. 5 lbs. (2.3 kg).
- 2250117—Safety Net Overarm Guard, Wt. 10 lbs. (4.5 kg).
- 2328002—Dado Insert Plate, Wt. 1 lb. (4.5 kg).
- 2389001—Steel Extension including rails, for ripping 49" (1244.60 mm) to right of saw. Wt. 62 lbs (28.1 kg).
- 2389003—Iron Extension including rails, for ripping 49" (1244.60 mm) to right of saw. Wt. 170 lbs (77.1 kg).
- 2471009—Miter Gauge, Wt. 4 lbs (1.8 kg).
- 2653001—48" (1219.20 mm) Table Rails with mating hardware
- 2653002—72" (1828.80 mm) Table Rails with mating hardware, for ripping 49" (1244.60 mm) to right of saw. Wt. 52 lbs (28.1 kg).
- 2670003—Stop Rods for Miter Gauge, Wt. 1 lb. (4.5 kg).
- 3186008—8" (203.20 mm) Cast Iron Extension Wing
- 6077004—Motor Belts (3 required) 4L230, Wt. 8 oz. (23 kg) ea.
- 6080041—Combination Saw, 1/2" (15.88 mm) bore. Wt. 1 1/2 lbs. (68 kg).

- 6080044—Hollow Ground Planer Blade, 1/2" (15.88 mm) bore. Wt. 1 1/2 lbs. (68 kg).
- 2195021—Production Fence
- 2397054—Pan'l Handler Conversion Kit (used with mag. controls only)
- 2398538—Pan'l Handler Remote Stop/Start Switch
- 2397058—42" Extension kit with extensions, production fence and leg
- 2397069—21" Extension kit with extensions, production fence and leg

SPECIFICATIONS

- Table with std. extensions
28" x 38" (711.20 mm x 965.20 mm)
- Rip fence, box type precision ground
1 1/4" x 2 1/4" x 33"
(38.10 mm x 63.50 mm x 838.20 mm)
- Diameter of arbor
1/2" (15.88 mm)
- Diameter of saw blade
10" (254.00 mm)
- Blade tilt
45°
- Maximum depth of cut, 90° 3 1/4" (79.38 mm)
- 45° 2 1/4" (54.96 mm)
- Maximum cut with std. extensions
to right of saw blade, std. fence
Maximum width cut-off in
front of saw in 1" (25.40 mm) stock
15" (381.00 mm)

- Maximum width cut-off in
front of saw in 3 1/4" (79.38 mm)
stock
12 1/4" (311.15 mm)
- Maximum width of dado
cut
13 1/8" (20.64 mm)
- Motor power recommended
1 1/2" to 3 HP (1.119 to 2.238 kw)
3450 RPM (361.28 rad/s)
- Speed of saw blade 4000 RPM (418.88 rad/s)
- Table height
34" (863.80 mm)
- Weight, net less motor
350 lbs (158.6 kg)
- Weight, net with motor
450 lbs (204.1 kg)
- Weight, domestic crated
with motor
- Production fence base
3 1/4" x 28"
- Table with Production Fence and std. extensions 28" x 51"

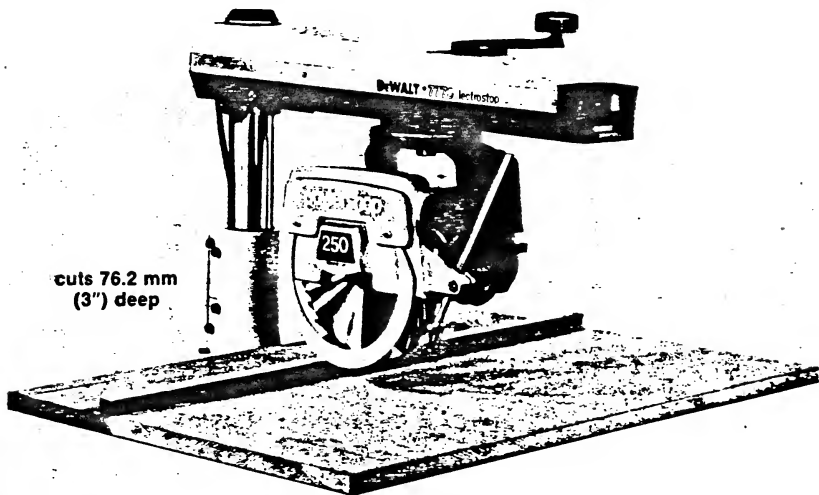
DeWalt 254mm(10") DELUXE POWERSHOP Model 7770

The greatest 254 mm (10") model you can buy!

038

Powerful! 2½ HP. Totally enclosed motor keeps dirt, moisture, and dust away from the winding for long trouble-free operating life. Lectrostop® automatic brake is built into the motor, stops the blade in 7-9 seconds when switch is shut off. Dual voltage motor is factory connected for 120 volt use and can easily be reconnected for 240 volt use. Two piece backboard allows greater cross-cut capacities. The well is pre-cut to accept attachments. Worktable and fence are solid masonite for smooth and accurate tabletop layout and cutting. See this top of the line 254 mm (10") Powershop in action at your DeWalt Dealer.

*Trade Mark Black & Decker (U.S.) Inc



cuts 76.2 mm
(3") deep



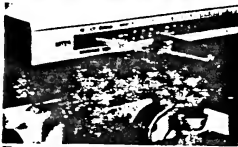
MODEL 7770 SPECIFICATIONS

Motor 120/208-240V., 1ph
Motor Rating Develops 2½ HP
Full Load Speed-60 cy. AC 3450 RPM
Blade Guards (includes lower) 254 mm (10")
Standard Blade 254 mm (10")
Arbor Size .. 15.9 mm x 38.1 mm (5/8" x 1½") long
Maximum Depth of Cut 76.2 mm (3")
Maximum Depth of Cut at 45° Bevel 54 mm (2½")
Cross Cut Capacity-1" stock ... 368.3 mm (14½")
Spindle Dado Cap.-Width 20.6 mm (13/16")
Ripping Capacity-Width 627.1 mm (24½")

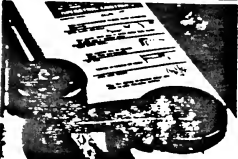
Miter Locating Latch 0° and 45° R or L
Scales Miter, Rip, Bevel
Bevel Locating Pin 0°, 45°, 90°
Column Diameter 69.9 mm (2¾")
Steel Table Size .. 457.2 x 546.1 mm (18" x 21½")
Work Table Overall Size 669.9 x 914.4 mm
(26¾" x 36")
Height Work Table, on Cabinets .. 939.8 mm (37")
Height Work Table on Legs 889 mm (35")
Net Weight 62.6 kg (138 lbs.)
Gross Shipping Weight 70.3 kg (155 lbs.)



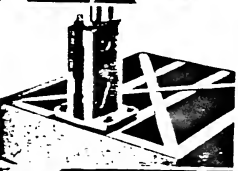
Up-Front Push Button Control. Easy to reach. Just like the big industrial DeWalts. Safety key lock prevents unauthorized use.



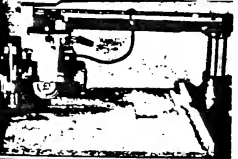
Single Handed Miter Control up-front for accurate 0° and 45° miter positioning plus positive grip for all miter settings... with one hand.



Quick, Easy Depth Adjustments at 4 mm ($\frac{1}{4}$ ") increments. Column cap is divided in eight sections for easy reference. No "creeping" action—elevating power is directly transmitted to the column and arm.



Superior Strength! Powershop box frame and center support channels are heavy gauge steel. The cast iron column base is extra length, rigidly supports the arm and column, contributes to accurate cutting.



Big 670 x 914.4 mm (26 $\frac{1}{2}$ " x 36 $\frac{1}{2}$ ") Warp Resistant Work Table eliminates saw overhang in all operations, gives full support for cutting panels.



Super Strong Gray Cast Iron Arm, standard on all DeWalt Powershops, is superior to aluminum for rigidity and durability. The one piece cast iron arm has precision machined tracks for long lasting repeatable accuracy.



Exclusive Roller Head Design. Four sealed-for-life ball bearing cast iron roller-head rides inside arm on precision machined tracks. Absorbs all thrust loads from all directions. Protected from dust and dirt. Bearings are adjustable.



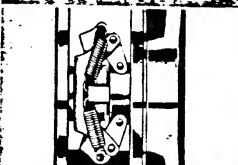
Micro-Positive Rip Lock lets you quickly set roller head without possibility of "creeping". Note the dual pointers and large rip scales. The 7730 Powershop has both metric and inch scale.



Totally Enclosed Direct Drive Motor keeps out sawdust, dirt, moisture. Delivers full power on every cut for smooth accuracy. No belts, pulleys, gears. Exclusively designed and built by DeWalt! Standard on Models 7770 and 7790.



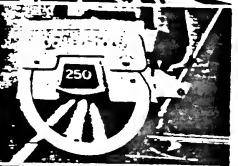
Dual-Arbor Motor Shaft gives you extra versatility. Back-end arbor enclosed in motor housing lets you use right hand tools for boring and doweling (except Model 7790).



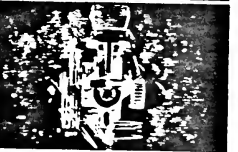
Lectrostop Motor Brake is automatic, stops the cutting tool in seconds. Lectrostop is standard equipment on 7770 and 7790 models. Manual brake is standard on models 7730 and 7740.



Longer Lasting Accuracy because the steel locator pin for rip cutting automatically drops into cast iron at all four 90° positions. DeWalt gives you this superior "steel into cast iron" feature. One hand operates yoke clamp handle.



Upper and Lower Blade Guards are standard equipment on all models, giving you added protection.



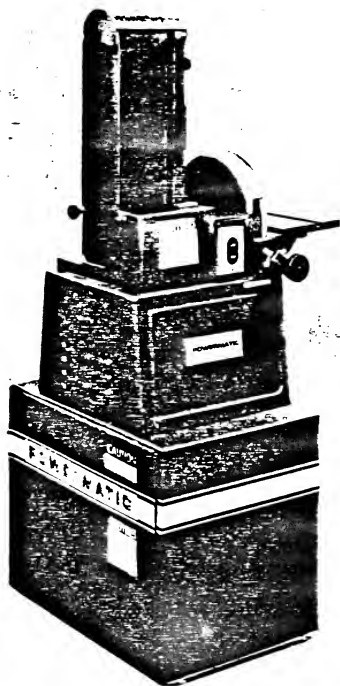
Tilts Beyond 90° to make any bevel angle with work always flat on table. The steel pin automatically locates at 0°, 45° and 90°. DeWalt one-hand clamp holds the bevel position rigidly.



You Always See What You're Cutting. Top-side cutting lets you make layout marks on the top of the material being cut.



Exclusive Wedge-Lok Miter Locator locks positively at 0° and 45°. Intermediate angle locking is assured with 360° one-hand clamp action. Scale marked in single degrees (except Model 7790).



**POWERMATIC'S LATEST ADDITION TO A RESPECTED
LINE OF SANDERS**

The Powermatic Model 30-B Combination Belt and Disc Sander is a step in the direction of pollution control with optional Dust Collector. The 30-B Sander can be used for both wood and metal sanding, and, with its own dust collection system, eliminates the necessity of a separate dust control unit. Dust disposal is easily accomplished with the removable drawer.

Rugged cast iron construction virtually eliminates vibration of all contour, angle and flat sanding jobs.

The standard tilting table (45° down or 15° up) and the swing away end guard (for easy access to the contour sanding surface), along with the optional tilting fence and miter gauge, permit rapid set-ups without the need for special tools.

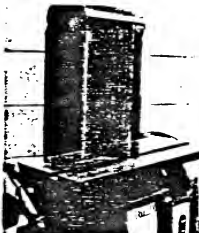
Improve the quality of your work with a dust free environment!



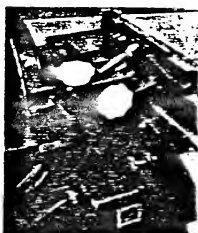
Optional miter attachment for straight and angular sanding.



Swing Away end guard permits convenient contour sanding.



Removable tilting table (15° up 45° down) can be used with either disc or belt.



Optional sliding and tilting fence for straight and angular sanding.

FEATURES

TILTING TABLE: Big 7" x 14 1/4" (117.8 mm x 438.2 mm) tilting table is slotted for accurate miter gauge attachment. Easy to tilt and lock at any angle from 0° to 45° down or 15° up. Change easily from belt to disc operation.

DRUMS: 4 1/2" (114 mm) in diameter, both drums are mounted in big sealed ball bearings for extra smooth operation and years of trouble free service. Idler drum accurately maintains belt tension. Easy-to-reach belt controls assure positive and accurate alignment.

BELT: Accommodates 6" x 48" (152 mm x 1219 mm) belt. Entire belt assembly may be quickly adjusted for operation at 4 positions from horizontal to vertical. Outer belt guard may be swung away for contour or

edge sanding. 2850 SFM (14.48 m/sec).

SANDING DISC: Full size 12" (304.8 mm) disc than ample for most sanding and polishing operation. Dynamically balanced for vibration-free performance. 2400 RPM.

GUARDS: Only the moving sanding surfaces exposed. All other moving parts, including belt as are completely guarded.

TRUNNION: Extremely heavy duty construction assures complete table rigidity at all times.

DUST COLLECTOR: The optional Dust Collector is self-contained. 394 CFM to help meet OSHA requirements. No hoses to clog or burn.

STANDARD EQUIPMENT

Model 30B Belt and Disc Sander: Interchangeable, tilting table, belt and disc guards, exhaust outlets, work stop, sanding belt, disc,

arbor pulley, set of wrenches, belt and motor pulley. Less: Controls and Stand.

BASIC MACHINE

1300131 — Model 30 B Belt and Disc Sander with all standard equipment. Less: Motor, Controls and Stand.

MOTORS

1 Phase

6471301 — 1 1/2 HP (1.12 kw), 60 Hz, 1800 RPM (188.46 rad/s), 115/230v, TEFC, 145T frame.

3 Phase

6471304 — 1 1/2 HP (1.12 kw), 60 Hz, 1800 RPM (188.46 rad/s), 230/460 TEFC, 145T frame.

6471317 — 1 1/2 HP (1.12 kw), 60 Hz, 1800 RPM (188.46 rad/s), TEFC, 145T frame.

6471322 — 1 1/2 HP (1.12 kw), 60 Hz, 1800 RPM (188.46 rad/s), TEFC, 145 T frame.

CONTROLS

1 Phase

2398528 — Manual Switch, 115/230v.

2398530 — Magnetic Controls, 115/230v.

*2398532 — Magnetic Controls, 115/230v w/24v transformer.

3 Phase

2398230 — JIC Controls, 200/230/460/575v.

2398529 — Manual Switch, 200/230/460/575v.

2398531 — Magnetic Controls, 200/230/460/575v.

*2398533 — Magnetic Controls, 200/230/460/575v, w/24v transformer.

0100003 — Conduit in lieu of standard wiring.

*May Be Specified With 110v Transformer

OPTIONAL ACCESSORIES

2093002 — Stand w/Dust Collector

2195004 — Fence assembly. Wt. 14 lbs (6.36 kg).

2195020 — Non tilting fence assy. Wt. 2 lbs (.92 kg)

2471010 — Miter gauge. Wt. 3 1/2 lbs (1.59 kg).

2759039 — Stand Assembly w/Dust Collector

2797134 — Table Assembly. Wt. 22 1/2 lbs (10.22 kg).

3127012 — Sanding disc, less flange

6012001 — 1 pint disc cement. Wt. 1 lb. (.46 kg).

6078001 — Metal sanding aluminum oxide belt, 100 grit, fine. Wt. 8 ozs. (.23 kg).

6078002 — Metal sanding aluminum oxide belt, 50 grit, coarse. Wt. 8 ozs. (.23 kg).

6078003 — Wood sanding garnet belt, 80 grit, fine. Wt. 8 ozs. (.23 kg).

6078004 — Wood Sanding garnet belt, 40 grit, coarse. Wt. 8 ozs. (.23 kg).

6206001 — Wood sanding disc, 80 grit, fine. Wt. 8 ozs. (.23 kg).

6206002 — Wood sanding disc, 40 grit, coarse. Wt. 8 ozs. (.23 kg).

6206003 — Metal sanding aluminum oxide disc, 100 grit, fine. Wt. 8 ozs. (.23 kg).

6206004 — Metal sanding aluminum oxide disc, 50 grit, coarse. Wt. 8 ozs. (.23 kg).

SPECIFICATION

Speed

Belt 2850 SFM (14.48 m/sec)

Disc 2400 RPM (251.28 rad/sec)

Belt

Size 6" x 48" (152 mm x 1219 mm)

Support Table Under Belt 6 1/2" x 14 1/4" (165 mm x 368 mm)

Working height in horizontal position 37 1/2" (952.5 mm)

Disc

Size 12" (304.8 mm) Dia.

Table

Size 7" x 17 1/4" (117.8 mm x 438.2 mm)

Tilt 45° down, 15° up

Drums

Size 4 1/2" x 6 1/4" (114 mm x 165 mm)

Distance between drum centers 17" (431 mm)

Dimensions

Height with stand or dust collector 41 1/4" (1057 mm)

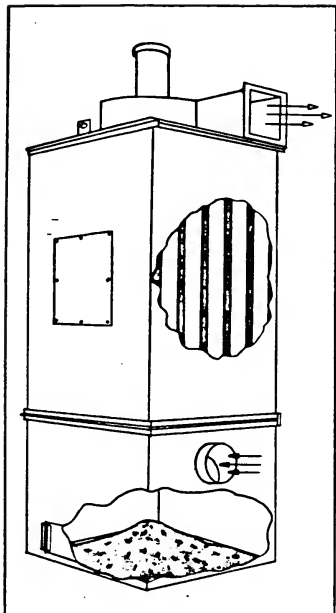
Length with stand or dust collector 33 1/4" (844 mm)

Width 22 1/2" (571 mm)

Weight

Basic Machine with motor and stand 242 lbs (109 kg)

Basic machine less stand 152 lbs (69 kg)



OPERATION

The material enters the unit in the primary separation section. All the heavy particles drop into the storage area.

Then, only the finest particles rise into the secondary filter area. The dust is removed and the cleaned air passes up through the exhauster and out of the unit. When the filters are shaken the dust falls into the storage area, so there is only one dust pick-up point.

Nothing goes through the exhauster but clean air. This not only protects and extends exhauster life, but also eliminates risk of fire caused by sparks generated when material hits exhauster blades.

THE MURPHY-RODGERS MODEL MRM DUST COLLECTOR IS A RUGGEDLY DESIGNED, HIGHLY EFFICIENT PIECE OF EQUIPMENT DESIGNED TO DO A FIRST CLASS JOB ON MOST TYPES OF DUST.

FEATURES

- High efficient performance.
- It fits into low ceiling areas, yet takes up minimal amount of floor space.
- It can be installed inside a building as well as outside.
- Easy to empty the collected waste.
- Flexible in design and capacities to fit all types of operations.
- Practically no maintenance.
- Totally enclosed in steel for fire protection and filter section protection.
- A good appearance.
- Completely self-contained.
- Easily installed by inexperienced personnel.
- Manual shaking mechanism.
- High performance on most types of dust particles.
- 500 to 3500 C.F.M.
- Easy operation.
- All sections of the unit readily accessible.
- Not damaged by large pieces of material drawn into the unit through the exhaust system.
- Handles hot particles in metal-working trade (with special filter media).
- Shipped completely assembled. (Legs removed).
- Low initial cost.
- Secondary multi-bag type filtration.
- Retains warm air in plant.
- Equalized pressure in building.
- Several storage variations available.

MRM-6

Inlet Diameter: 6"
Unit will Handle: 2 - 4" lines or 1 - 5" and 1 - 3" line.
Motor: 2 H.P. 3600 R.P.M.
Unit Rating: 600 to 1100 C.F.M. at 8" to 1.5" W.G.
Recommended Operation: 700 to 900 C.F.M. to 7".

MRM-7

Inlet Diameter: 7"
Unit will Handle: 3 - 4" lines or 2 - 5" lines.
Motor: 3 H.P. 3600 R.P.M.
Unit Rating: 900 to 1600 C.F.M. at 9" to 2" W.G.
Recommended Operation: 1000 to 1500 C.F.M. to 8".

MRM-9

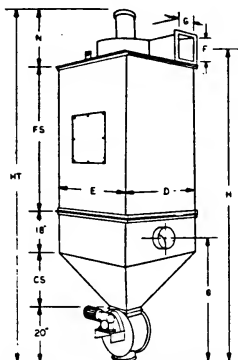
Inlet Diameter: 9"
Unit will Handle: 5 - 4" lines or 3 - 5" lines.
Motor: 5 H.P. 3600 R.P.M.
Unit Rating: 1600 to 2500 C.F.M. at 9" to 2" W.G.
Recommended Operation: 1800 to 2300 C.F.M. to 8".

MRM-10

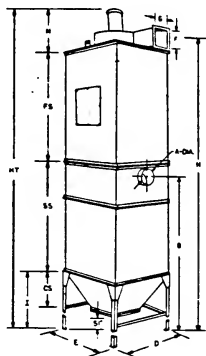
Inlet Diameter: 10"
Unit will Handle: 7 - 4" lines or 4-5" lines.
Motor: 7½ H.P. 1760 R.P.M.
Unit Rating: 2500 to 3500 C.F.M. at 9" to 4" W.G.
Recommended Operations: 2500 to 3100 C.F.M. to 8".

MODEL MRM DIMENSION DATA

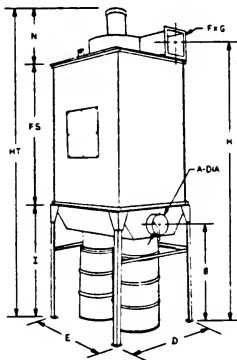
DIMENSIONS
(SUBJECT TO CHANGE
WITHOUT NOTICE)



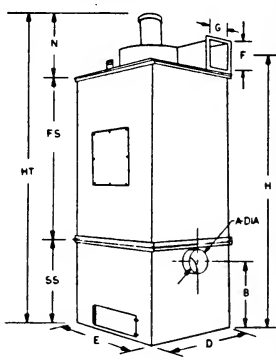
CONE DISCHARGE WITH 8" AIR LOCK



STORAGE BIN UNIT



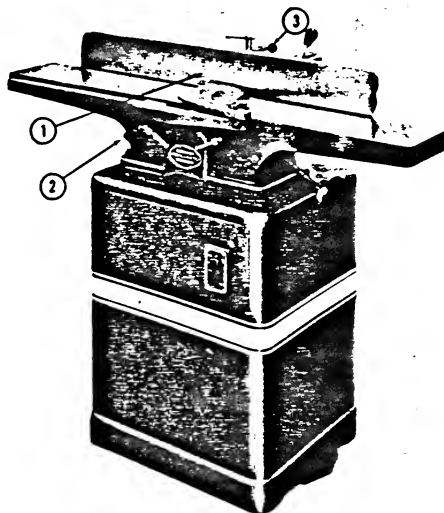
TWO DRUM STORAGE UNIT



BASIC UNIT

	BASIC UNIT				TWO DRUM UNIT				CONE & AIR LOCK				80 CU. FT. UNIT				80 CU. FT. UNIT			
	-6	-7	-9	-10	-6	-7	-9	-10	-6	-7	-9	-10	-6	-7	-9	-10	-6	-7	-9	-10
A	8	7	9	10	8	7	9	10	8	7	9	10	8	7	9	10	8	7	9	10
B	29%	29	28	27%	51	51	51	51	60	60	60	60	133	132%	131%	131	156%	156	157	156%
CS	-	-	-	-	-	-	-	-	31	31	31	31	14	14	14	14	14	14	14	14
D	45	45	45	45	48%	48%	48%	48%	45	45	45	45	48%	48%	48%	48%	48%	48%	48%	48%
E	51	51	51	51	54%	54%	54%	54%	51	51	51	51	54%	54%	54%	54%	54%	54%	54%	54%
FS	37%	48%	81%	73%	37%	49%	81%	73%	37%	48%	81%	73%	37%	48%	81%	73%	37%	48%	81%	73%
F	8%	5%	8%	10%	5%	5%	8%	10%	5%	5%	8%	10%	5%	5%	8%	10%	5%	5%	8%	10%
G	5%	7%	11	8	5%	7%	11	9	5%	7%	11	9	5%	7%	11	9	5%	7%	11	8
H	76	88	100%	115	87%	100%	122	136%	106	121	133%	148	179	181	203%	218	204%	218%	229	243%
HT	86%	104	118	136%	111	125%	136%	168	122%	137	151	169%	182%	207	221	236%	218	232%	246%	265
I	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N	15	18%	20%	27	18	18%	20%	27	18	18%	20%	27	18	18%	20%	27	18	18%	20%	27
SS	36	36	36	36	-	-	-	-	-	-	-	-	54	54	54	54	88	88	88	88
WT	861F	761F	846F	1023F	714F	774F	871F	1055F	836F	896F	866F	1180F	1086F	1117F	1215F	1306F	1187F	1246F	1344F	1526F

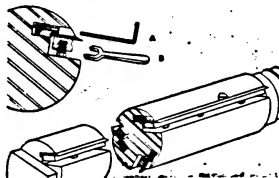
48" PRODUCTION TABLE STANDARD EQUIPMENT



RUGGED, DYNAMIC CHAMPION

Here is one of the most versatile of all Powermatic® machines... equally adaptable for industrial, student training or home workshop use. Built with the strength and rigidity of much larger units, this Powermatic 6" Jointer is light enough to be moved quickly anywhere... from the production line to the building site. Smart, streamlined design is free of dust-catching corners and crevices... saves shop clean-up time!

SPEEDS ACCURATE KNIFE-SETTING



Superior Powermatic Cutterhead a standard feature. Set and secure all cutterhead knives in as little as half the time. Adjust knife support jack-screws (A) with Allen wrench and pressure-lock knife safety shim (B) with end-wrench. Cutterhead mounted in over-size sealed ball bearings. Precision ground and balanced.

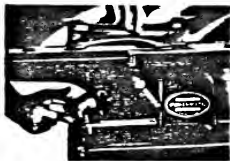


①

"Skew" or Shear Cutting is easily accomplished by swiveling fence. This practice especially desirable on materials such as curly maple, cherry and fir.

②

Adjustable Outfeed Table. Simplifies alignment of Cutterhead with outfeed table. Cuts knife adjustment time in half. (See page 58 for #150 Gage listing).



③

Extra Large Center-Mounted Fence plunger-locks at 90° with automatic stops at 45° right and left. Positive quick-lock in any other position. Glides easily and locks across full table width, completely guarding cutterhead at rear of fence.



Positive Fence Hold-Down Clamp.

Adjust fence to desired angle and lock the hold-down clamp. Fence will then maintain rigid horizontal alignment with the table.



SPECIAL HIGH PERFORMANCE TURNING TOOLS

Require less tool care than standard tools.

0829019 — For #45 and #90 Lathe, wt. 4 lbs (1.8kg)

TOOL SUPPORT BASE:

For use when making extra long turnings requiring 24" (609.60mm) tool support.

2063011 — For #45 and #90 Lathe, wt. 12 lbs (5.4kg).

OUTBOARD TURNING STAND

Floor stand with offset tool holder for turning pieces larger than 12" (304.80mm) diameter.

2759009 — For #45 and #90 Lathe, wt. 75 lbs (34.0kg).

FACE PLATE

	#90	#45
3" (76.20 mm)		
R.H. face plate		
2 lbs (9kg)	3193005	3193001
4" (101.60 mm)		
R.H. face plate		
2 lbs (9kg)	3193004	3193003
7" (177.8 mm)		
R.H. face plate		
3½ lbs (1.58 kg)		
8½" (215.90 mm)		
Outboard face plate	3193010	3193016

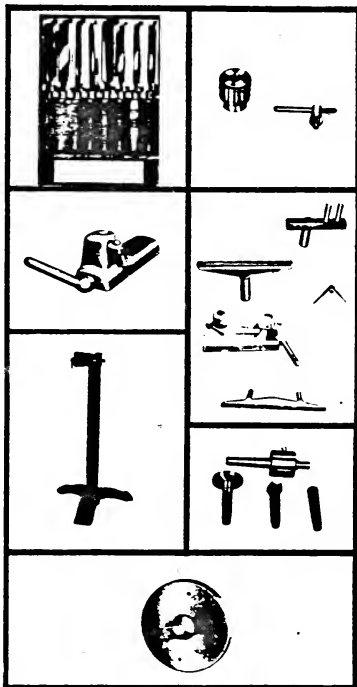
LATHE GUARD

2250123 — For Model 45 & 90.

SLOW SPEED CONVERSION KIT

(Model 90 only) 2397033

(Model 90 only) Pre-1960 2397037
330 to 2100 RPM



CHUCKS #90 and #45

3" (76.20 mm) screw chuck, threaded 1 lb (45 kg) (Model 90 only) 2085004

½" (12.70 mm) three-jaw chuck 6118013

No. 2 Taper Arbor, 1½ lbs (.7 kg) 6023003

TOOL SUPPORTS #90 and #45

Lathe

Right angle tool support

3 lbs (1.3 kg) 3658007

6" (152.40 mm) tool support

1½ lbs (.7 kg) 3658010

12" (304.80 mm) tool support

2 lbs (.9 kg) 3658009

24" (609.60 mm) tool support

5 lbs (2.3 kg) 2658007

12" (304.80 mm) Metal spinning tool rest 3 lbs

(1.3 kg) 2397063

Offset tool support 3 lbs

(1.3 kg) 2658003

Less: Base

CENTERS: #90 and #45

Lathe

Ball bearing tailstock center,

1 lb (45 kg) 2084002

1" (25.40 mm) spur center,

4 oz (1.1 kg) 2084001

¾" (19.05 mm) cup center,

4 oz (1.1 kg) 6112002



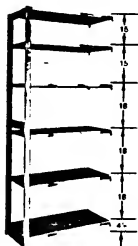
The Wood turning Lathe Guard is signed for operator safety. Made in sections and moveable left to right. Right to left, protection is afforded outboard faceplate by moving the section of the guard to the extreme. For protection of the inboard faces this section is moved to the extreme right. Full work range protection is afforded by using both guard section the extreme right position.



TYPIC 0-42

PART NUMBERS SHOWN ARE FOR SHELVING WITH "T" UPRIGHTS. FOR SHELVING WITH "L" UPRIGHTS, SUBSTITUTE "L" FOR "T" IN PART NUMBER

OPEN SHELVING



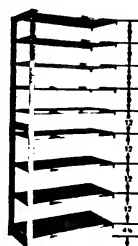
6 SHELF SECTION				
PART	W	D	H	
Q1206T	36	12	88 1/4"	
Q1806T	36	18	88 1/4"	
Q2406T	36	24	88 1/4"	



7 SHELF SECTION				
PART	W	D	H	
Q1207T	36	12	88 1/4"	
Q1807T	36	18	88 1/4"	
Q2407T	36	24	88 1/4"	



8 SHELF SECTION				
PART	W	D	H	
Q1208T	36	12	88 1/4"	
Q1808T	36	18	88 1/4"	
Q2408T	36	24	88 1/4"	

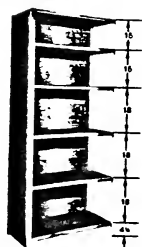


9 SHELF SECTION				
PART	W	D	H	
Q1209T	36	12	88 1/4"	
Q1809T	36	18	88 1/4"	
Q2409T	36	24	88 1/4"	

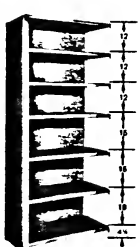


OPEN UPRIGHT		
PART	D	H
1288 OT	12	88 1/4"
1888 OT	18	88 1/4"
2488 OT	24	88 1/4"

CLOSED SHELVING



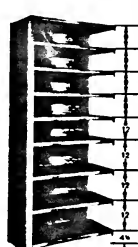
6 SHELF SECTION				
PART	W	D	H	
Q12C6T	36	12	88 1/4"	
Q18C6T	36	18	88 1/4"	
Q24C6T	36	24	88 1/4"	



7 SHELF SECTION				
PART	W	D	H	
Q12C7T	36	12	88 1/4"	
Q18C7T	36	18	88 1/4"	
Q24C7T	36	24	88 1/4"	



8 SHELF SECTION				
PART	W	D	H	
Q12C8T	36	12	88 1/4"	
Q18C8T	36	18	88 1/4"	
Q24C8T	36	24	88 1/4"	



9 SHELF SECTION				
PART	W	D	H	
Q12C9T	36	12	88 1/4"	
Q18C9T	36	18	88 1/4"	
Q24C9T	36	24	88 1/4"	



CLOSED UPRIGHT		
PART	D	H
1288 CT	12	88 1/4"
1888 CT	18	88 1/4"
2488 CT	24	88 1/4"

NOTE: Add on sections utilize common uprights, but additional uprights are needed for the end of each row.

OTHER AVAILABILITIES: Open Shelving, Closed Shelving, Bin-Type Shelving and Counter-Hi Shelving are shown here only with 36" wide shelves for three depths. All depths are also available in 42" and 48" wide shelves. Also shelf depth of 36" available in all widths. Note that 64 1/2", 76 1/2", 84 1/2", and 87 1/2" high shelving is also available, in addition to the 80 1/2" and 88 1/4" shelving shown on these two pages.

SECTIONS

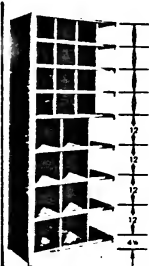
AVAILABLE IN GREY,
STONE PUTTY, MATTE BLACK
OR DESERT SAND COLOR
(Baked Enamel Finish)
All dimensions in inches

PART NUMBERS SHOWN ARE FOR SHELVING WITH "T" UPRIGHTS. FOR SHELVING WITH "L" UPRIGHTS,
SUBSTITUTE "L" FOR "T" IN PART NUMBER

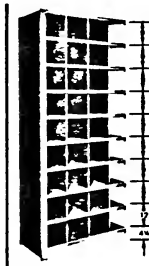
BIN-TYPE SHELVING



8 SHELF SECTION				
PART	W	D	H	
Q1288T	36	12	88 1/4"	
Q1888T	36	18	88 1/4"	
Q2488T	36	24	88 1/4"	



9 SHELF SECTION				
PART	W	D	H	
Q1289T	36	12	88 1/4"	
Q1889T	36	18	88 1/4"	
Q2489T	36	24	88 1/4"	



10 SHELF SECTION				
PART	W	D	H	
Q1291T	36	12	88 1/4"	
Q1881T	36	18	88 1/4"	
Q2481T	36	24	88 1/4"	



10 SHELF SECTION				
PART	W	D	H	
Q1282T	36	12	88 1/4"	
Q1882T	36	18	88 1/4"	
Q2482T	36	24	88 1/4"	



CLOSED UPRIGHT			
PART	D	H	
1288 CT	12	88 1/4"	
1888 CT	18	88 1/4"	
2488 CT	24	88 1/4"	

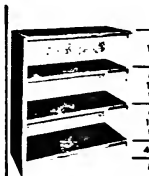
COUNTER-HI SHELVING



OPEN SHELVING*				
PART	W	D	H	
Q1203T	36	12	40 1/4"	
Q1803T	36	18	40 1/4"	
Q2403T	36	24	40 1/4"	



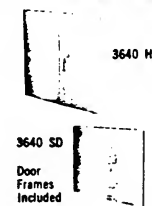
OPEN UPRIGHT			
PART	D	H	
1240 OT	12	40 1/4"	
1840 OT	18	40 1/4"	
2440 OT	24	40 1/4"	



CLOSED SHELVING*				
PART	W	D	H	
Q12C3T	36	12	40 1/4"	
Q18C3T	36	18	40 1/4"	
Q24C3T	36	24	40 1/4"	



CLOSED UPRIGHT			
PART	D	H	
1240 CT	12	40 1/4"	
1840 CT	18	40 1/4"	
2440 CT	24	40 1/4"	



DOORS			
PART	W	H	
3640 HD	36	40 1/4"	
3640 SD†	36	40 1/4"	

Important: Because of the nature of the construction of the ledge top, end ledge units must be "L" post construction, and intermediate ledge units must be "T" post construction. Same top is used for rights, lefts, and centers.

*These assemblies include a steel ledge top instead of standard shelf. Two ledge TOP END CAPS must be added for each row.

SAME 36" WIDE LEDGE TOP — 3 POSSIBILITIES



WITHOUT DOORS

View showing open and closed counter hi units without doors. Absence of sway braces, and faces without holes make these units suitable for shop or office.



WITH SWING DOORS

Sliding door, a 36" wide swing door set can be installed instead of sliding doors. Doors project 1" from face of upright.



WITH SLIDING DOORS

Set aside by 36" high sliding doors assembled in 3" wide unit. Wide unit line design provided for 1" spools at end of section. Sliding door projects 1" from face of upright.



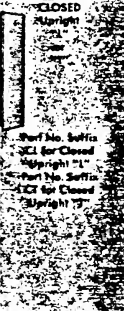
SHELVING PARTS

AVAILAS
STOVE PUTTY
ON BACK
(Shelf End)
All dimensions in inches



DESCRIPTION	PART NO.	SIZE IN INCHES		
		W	D	H
OPEN Upright Part No. 3614 SCL for Open Upright "L" Part No. 3615 SCL for Open Upright "T"	12400L or OT	12	40 1/4	
	15400L or OT	15	40 1/4	
	18400L or OT	18	40 1/4	
	24400L or OT	24	40 1/4	
	12640L or OT	12	64 1/4	
	15640L or OT	15	64 1/4	
	18640L or OT	18	64 1/4	
	24640L or OT	24	64 1/4	
	12760L or OT	12	76 1/4	
	15760L or OT	15	76 1/4	
CLOSED Upright Part No. 3616 SCL for Closed Upright "L" Part No. 3617 SCL for Closed Upright "T"	12400C or CT	12	40 1/4	
	15400C or CT	15	40 1/4	
	18400C or CT	18	40 1/4	
	24400C or CT	24	40 1/4	
	12640C or CT	12	64 1/4	
	15640C or CT	15	64 1/4	
	18640C or CT	18	64 1/4	
	24640C or CT	24	64 1/4	
	12760C or CT	12	76 1/4	
	15760C or CT	15	76 1/4	

18 ga. posts of double wall "L" or "T" formation with 3 fixed 18 ga. depth spacers.
NOTE:
2 spacers for 40 1/4" & 4 spacers for 94 1/4" & 47 1/4"



DESCRIPTION	PART NO.	SIZE IN INCHES		
		W	D	H
OPEN Upright Part No. 3614 SCL for Open Upright "L" Part No. 3615 SCL for Open Upright "T"	12400L or OT	12	40 1/4	
	15400L or OT	15	40 1/4	
	18400L or OT	18	40 1/4	
	24400L or OT	24	40 1/4	
	12640L or OT	12	64 1/4	
	15640L or OT	15	64 1/4	
	18640L or OT	18	64 1/4	
	24640L or OT	24	64 1/4	
	12760L or OT	12	76 1/4	
	15760L or OT	15	76 1/4	
CLOSED Upright Part No. 3616 SCL for Closed Upright "L" Part No. 3617 SCL for Closed Upright "T"	12400C or CT	12	40 1/4	
	15400C or CT	15	40 1/4	
	18400C or CT	18	40 1/4	
	24400C or CT	24	40 1/4	
	12640C or CT	12	64 1/4	
	15640C or CT	15	64 1/4	
	18640C or CT	18	64 1/4	
	24640C or CT	24	64 1/4	
	12760C or CT	12	76 1/4	
	15760C or CT	15	76 1/4	

18 ga. posts of double wall "L" or "T" formation with 24 ga. closure sheet.



DESCRIPTION	PART NO.	SIZE IN INCHES		
		W	D	H
BACK Upright Part No. 3618 SCL for Back Upright "L" Part No. 3619 SCL for Back Upright "T"	36400B	36	40 1/4	
	36640B	36	64 1/4	
	36760B	36	76 1/4	
	36880B	36	88 1/4	
	36940B	36	94 1/4	
	36970B	36	97 1/4	
	42400B	42	40 1/4	
	42640B	42	64 1/4	
	42760B	42	76 1/4	
	42880B	42	88 1/4	
24 ga. One common back serves on back-to-back units.	42940B	42	94 1/4	
	42970B	42	97 1/4	
	48400B	48	40 1/4	
	48640B	48	64 1/4	
	48760B	48	76 1/4	
	48880B	48	88 1/4	
	48940B	48	94 1/4	
	48970B	48	97 1/4	
	3604FB	36	4	
	4204FB	42	4	

24 ga. One common back serves on back-to-back units.



DESCRIPTION	PART NO.	SIZE IN INCHES		
		W	D	H
REINFORCED Upright Part No. 3620 SCL for Reinforced Upright "L" Part No. 3621 SCL for Reinforced Upright "T"	3604HD	36	40 1/4	
	3676HD	36	76 1/4	
	3688HD	36	88 1/4	
	3640SD	36	40 1/4	
	3676SD	36	76 1/4	
	3688SD	36	88 1/4	
	4240HD	42	40 1/4	
	4264HD	42	64 1/4	
	4276HD	42	76 1/4	
	4288HD	42	88 1/4	

20 ga. Posts under 1 1/2" Shelf Flange to give 4 1/4" height
20 ga. Doors stiffened with 24 ga. reinforcement
16 ga. Base
20 ga. Doors stiffened with two 24 ga. reinforcement
18 ga. Frame
14 ga. Base



DESCRIPTION	PART NO.	SIZE IN INCHES		
		W	D	H
SHELF Upright Part No. 3622 SCL for Shelf Upright "L" Part No. 3623 SCL for Shelf Upright "T"	3612OS	36	12	
	3615OS	36	15	
	3618OS	36	18	
	3624OS	36	24	
	4212OS	42	12	
	4215OS	42	15	
	4218OS	42	18	
	4224OS	42	24	
	4812OS	48	12	
	4815OS	48	15	
18 ga. with 1 1/4" Flanges all sides, re turned front and back	4818OS	48	18	
	4824OS	48	24	
	3612PS	36	12	
	3615PS	36	15	
	3618PS	36	18	
	3624PS	36	24	
	4212PS	42	12	
	4215PS	42	15	
	4218PS	42	18	
	4224PS	42	24	

18 ga. with 1 1/4" Flanges all sides, re turned front and back

18 ga. with 1 1/4" Flanges all sides, re turned front and back Punched for Bin Dividers on 1 1/2" centers



DESCRIPTION	PART NO.	SIZE IN INCHES		
		W	D	H
SUPPORT Upright Part No. 3624 SCL for Support Upright "L" Part No. 3625 SCL for Support Upright "T"	3614SS	36	14	1 1/4
	3618SS	36	18	1 1/4
	4214SS	42	14	1 1/4
	4218SS	42	18	1 1/4
	4814SS	48	14	1 1/4
	4818SS	48	18	1 1/4
	4824SS	48	24	1 1/4
	1201RC	12	1	
	1501RC	15	1	
	1801RC	18	1	
16 ga. Channel	2401RC	24	1	
	1501 1/2 RC	15	1 1/2	
	1801 1/2 RC	18	1 1/2	
	2401 1/2 RC	24	1 1/2	
	3603BF	36	3	
	4203BF	42	3	
	4803BF	48	3	
	1206SD	12	6	
	1209SD	12	9	
	1212SD	12	12	

3614, 4214, and 4814 are 14 ga Others 11 ga

16 ga. Channel

16 ga. Channel

18 ga

24 ga. Rolled Front



DESCRIPTION	PART NO.	SIZE IN INCHES		
		W	D	H
DIVIDER Upright Part No. 3626 SCL for Divider Upright "L" Part No. 3627 SCL for Divider Upright "T"	1206SD	12	6	
	1209SD	12	9	
	1212SD	12	12	
	1506SD	15	6	
	1509SD	15	9	
	1512SD	15	12	
	1806SD	18	6	
	1809SD	18	9	
	1812SD	18	12	
	1816 1/2 SD	18	16 1/2	
16 Ga Order Shelves punched to accommodate bolts.	2406SD	24	6	
	2409SD	24	9	
	2412SD	24	12	
	3602CS-OS	35 3/4	1/2	2 1/2
	4202CS-OS	41 3/4	1/2	2 1/2
	4802CS-OS	47 3/4	1/2	2 1/2
	3612IT	36	13	
	3615IT	36	16	
	3618IT	36	19	
	3624IT	36	25	

16 Ga Order Shelves punched to accommodate bolts.

18 ga.

18 ga.



DESCRIPTION	PART NO.	SIZE IN INCHES		
		W	D	H
SPECIAL SIZE, 1 1/2" self edged. Recommend min. 1/2" overlap on exposed edges. Danish Walnut - TT-9541-T.	36011H	36	1	
	42011H	42	1	
	48011H	48	1	
	36070R	36	12	
	36270R	36	12	
	36070R	36	12	
	36270R	36	12	
	36070R	36	12	
	36270R	36	12	
	36070R	36	12	

Self Adhering

Mounts on 2 shelf supports

ORDERING INFORMATION

SHELVING MAY BE ORDERED BY UNIT AS ON PAGES 18 & 19 OR BY PART, AS ON PAGES 20 & 21

DESCRIPTION	PART NO.	SIZE IN INCHES			
		W	D	H	
AISLE TEES	3603AT	36		3	18 Ga. For special lengths consult factory
	4203AT	42		3	
	4803AT	48		3	
SMALL PARTS BASKET FOOT CLOUTIER SMALL TIE POST BRIM	0106PF				
	0101UC				
	0102CP				
	0104WT				
	0105PS				
BACK HOLDERS	3601BH	33 3/4			Fits over shelf support 3 per back
	4201BH	39 3/4			
	4801BH	45 3/4			
BACK OLPS	0101BC				6 per back

COLORS: TWILIGHT GREY, STONE PUTTY, DESERT SAND, MATTE BLACK ARE STANDARD. ALL OTHERS EXTRA. MAX. HEIGHT FOR SPECIAL COLORS IS 84 1/4".

SPECIALS: CONSULT FACTORY FOR MINIMUM QUANTITIES AND SET UP CHARGES ON SPECIAL SIZES.

COMPARISON OF METHODS

Ordering by unit is simpler, with less chance of error than by part. Using all "T" posts makes ordering simplest, and allows future additions to hook onto existing shelving, but adds 2" to row length. Using "L" posts on end uprights omits the 2" overhang and allows an over-all row length equal to the exact width of the unit times the number of units. Also, the "L" posts provide dresser ends along aisles. Note that

closed "L" uprights can be substituted for the open "L" uprights to give "finish panel" effect at ends of rows.

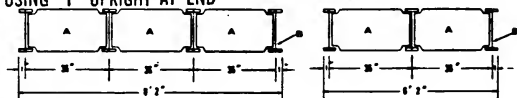
Since part numbers are completely descriptive, written descriptions are not required, and are shown here only for illustrative purposes. On purchase orders only the color need be shown in addition to the part number.

TYPICAL REQUIREMENT

Top or "Plan" view shown. 5 sections of single row open shelving 36" w x 18" d x 88 1/4" h, 7 shelves per section, Grey, arranged in 1-row of 3 sections and 1-row of 2 sections.



USING "T" UPRIGHT AT END



ORDER BY UNIT

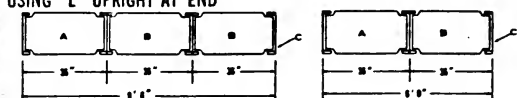
- A 2 ea. Q1807T—36" w x 18" d x 88 1/4" h open shelving sections, 7 shelves, Grey
B 2 ea. 18880T—18" d x 88 1/4" h open uprights, Grey (for ends of rows)

ORDER BY PART

- 7 ea. 18880T—18" d x 88 1/4" h open uprights, Grey
35 ea. 3618QS—36" w x 18" d Quik-Lok shelves, Grey
70 ea. 3614SS—36" w shelf supports, Grey



USING "L" UPRIGHT AT END



ORDER BY UNIT

- A 2 ea. Q1807L—36" w x 18" d x 88 1/4" h open shelving sections, 7 shelves, Grey ("L" Posts)
B 3 ea. Q1807T—36" w x 18" d x 88 1/4" h open shelving sections, 7 shelves, Grey ("T" Posts)
C 2 ea. 18880L—18" d x 88 1/4" h open uprights, Grey, for ends of rows, ("L" Posts)

ORDER BY PART

- 4 ea. 18880L—18" d x 88 1/4" h open uprights, Grey ("L" Posts)
3 ea. 18880T—18" d x 88 1/4" h open uprights, Grey ("T" Posts)
35 ea. 3618QS—36" w x 18" d Quik-Lok shelves, Grey
70 ea. 3614SS—36" w shelf support, Grey

4 COLORS— Grey, Stone Putty, Desert Sand, Matte Black.

IMPORTANT DIMENSIONS FRONT VIEW (ELEVATION)

POST CONSTRUCTION

POST CONSTRUCTION

POST CONSTRUCTION

POST CONSTRUCTION

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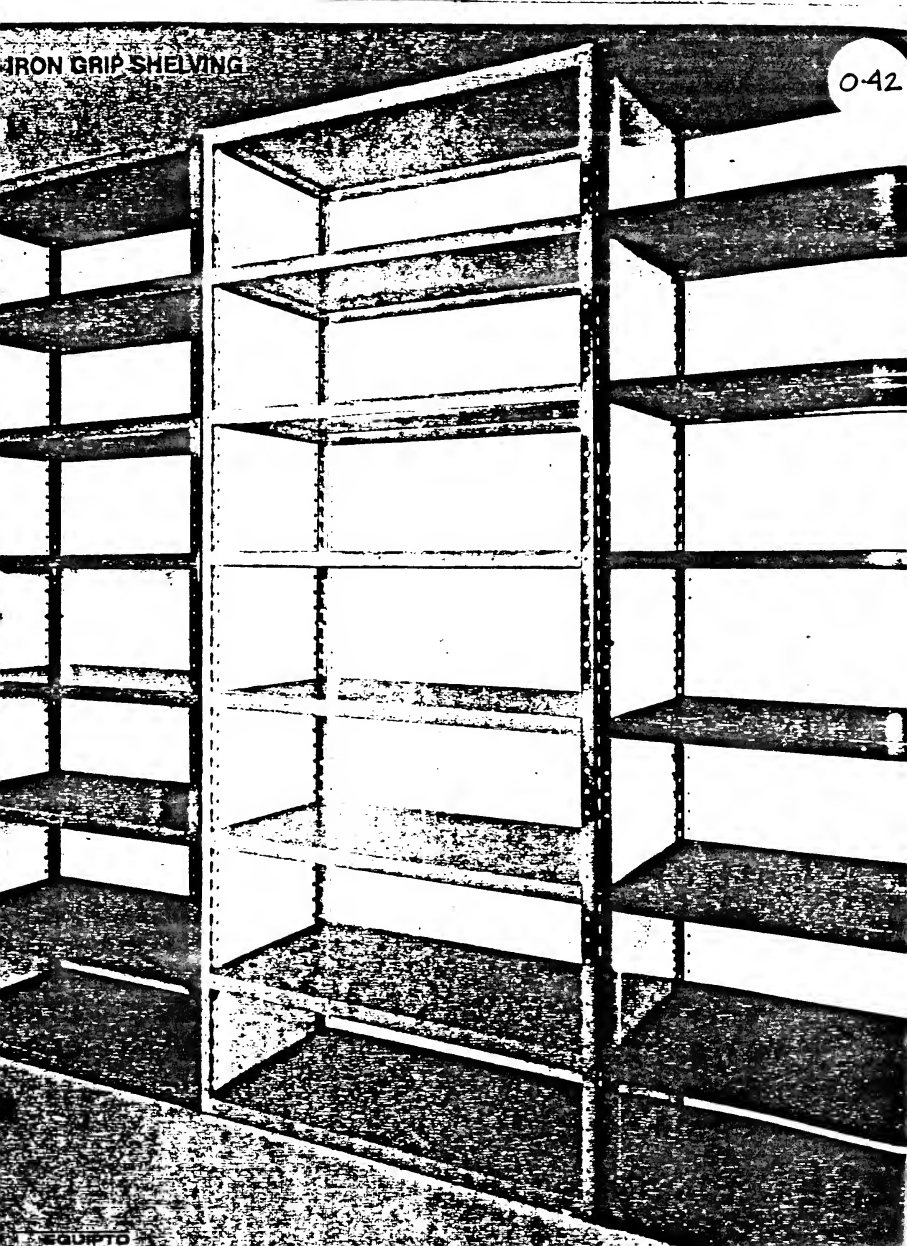
POST CONSTRUCTION

POST CONSTRUCTION

POST CONSTRUCTION

IRON GRIP SHELVING

0-42



EQUIPTO Iron Grip® revolutionized shelving/storage systems and is still the strongest, most versatile system in the industry. Quick shelf installation without tools; just a simple, solid steel stud at every shelf corner. Independent unit concept is engineered for strength, and is infinitely adjustable for custom fitting to your specific needs.

The EQUIPTO "Systems Approach" to modern shelving problems is the ultimate answer to continually changing industrial storage needs. Simple modular units custom designed for simplicity, maximum versatility and superior strength. Order by units or by components... add drawers, dividers, bin fronts, bases, doors in a variety of configurations. EQUIPTO's years of proven experience in quality control and service assures superior performance with unmatched convenience. Our consistent concern for advanced design, engineering and manufacturing is only part of the EQUIPTO commitment to product excellence.

The remarkable Iron Grip design allows assembly of steel shelves in just minutes...without nuts, bolts or tools. Simply insert a stud in each shelf corner to lock a double thickness of metal directly to the largest upright in the industry. The result is a cam-like action that increases stud grip as additional weight is added to the unit. No matter how heavily loaded, this simple 4-point suspension assembly is instantly adjustable without tools.

Heights Iron Grip open shelving units come in basic 7' height, 38 1/4", 43 1/4", 6', 8' and 15' high units are also available. Any heights by special order. Specify desired height, we will adjust as necessary. Or send us your specifications, and we'll provide prompt quotation.

Widths Basic width for Iron Grip units is 3'. EQUIPTO also stocks widths in depths of 12", 18" & 24"; use order number in chart. Specify 4' widths.

1"x2 1/4" uprights are the largest in the industry. Side embossing adds even more strength and rigidity to the unit.

Iron Grip studs allow adjustment of shelves instantly on 1 1/2" centers without any tools.

Front and rear shelf flanges extend around the sides past keyhole. Steel stud binds both flanges to upright.

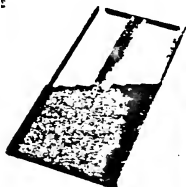
Shelves are flanged down and under on all 4 sides for utmost rigidity.

Studs always grip tightly under load, yet remove easily, regardless of how many years. Iron Grip shelving is used. The heavier the load, the tighter the grip.

Dividers adjust on 1" centers with Speedy Clips on 36" wide shelving (3" centers on 48" widths).



An easily-inserted solid steel stud placed in every corner of each shelf locks a double thickness of metal directly to heavy-duty, 13-gauge steel uprights. Superior Iron Grip strength automatically provides crucial 4-point reinforcement to shelves. The tapered stud engages a sloped, key-shaped hole in the upright for instant binding strength. Built to last. Studs are plated, other parts have oven-baked enamel surfaces, and all formed from prime cold-rolled steel.



Durable 18-gauge shelves feature box-formed edges on all four sides. Adding 13-gauge, U-formed channels (1/4"x1 1/4") to shelf fronts provides extra-strength reinforcement for stepping on heavily loaded shelves. For even more severe use, simply add rear and/or end and center channels. Angles (1"x1") made of 1/4" thick carbon steel provide optional reinforcement at the ends.



EQUIPTO's exclusive Iron Grip fastens any two shelving unit together quickly and easily. Access keys remove just as easily, allowing rearrangement of units without disturbing adjacent units.

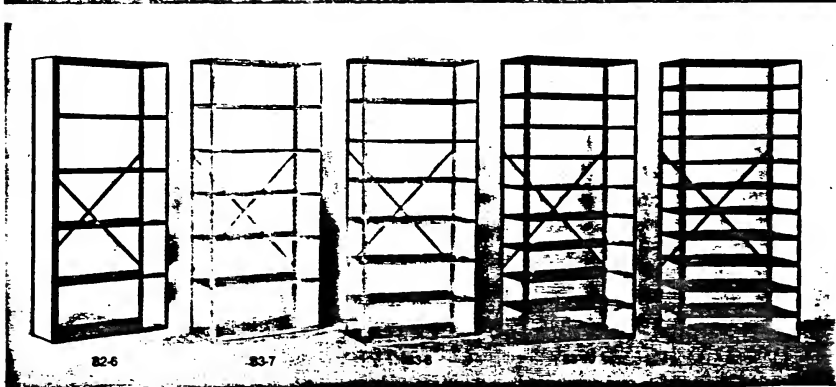
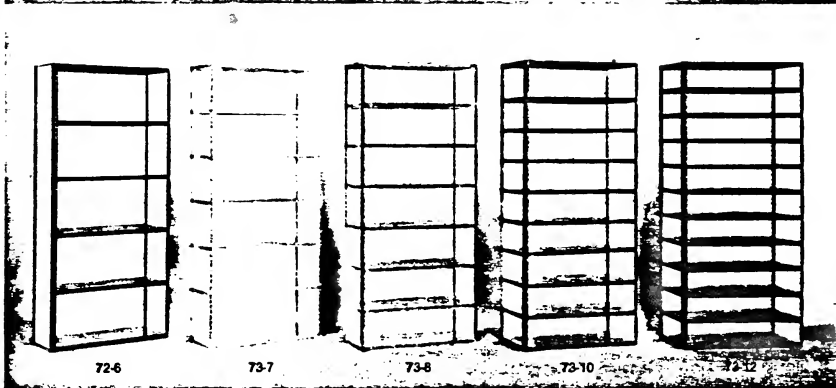
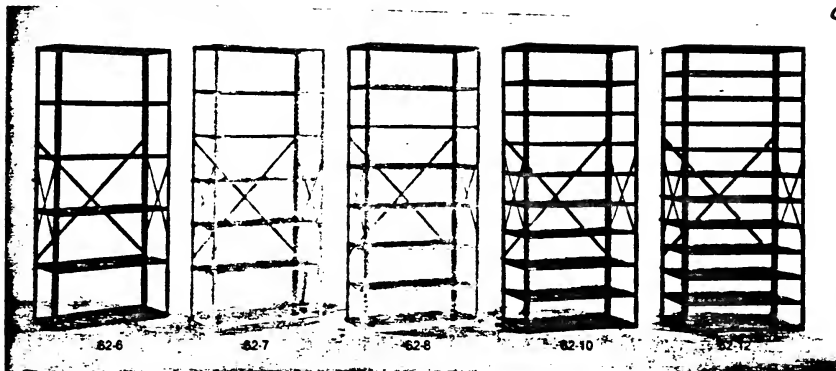
Patent No. 2,824,775



Use Iron Grip shelving in a variety of configurations: free-standing, side-by-side, back-to-back, or ranged in efficient work center. Each shelf unit has four uprights. EQUIPTO's exclusive Iron Grip fastens any two units side-by-side, allowing instant grouping without sacrificing mobility. Add or remove units... relocate entire set-up without disassembling. A simple key does it all.

IRON GRIP SHELVING

0.42



80 Series—Open Shelving

EQUIPTO Iron Grip open units in basic 7'H x 3' or 4'W include sway braces for utmost rigidity. Each unit has four heavy uprights, combined with the best engineered shelves in the industry. Additional weight adds more strength to the unit. Ideal for storing items which require no shelf back, for placing against walls, or for back-to-back placement against closed back units to achieve "common back panel" economy. Units easily accept vertical dividers and drawers with instantly adjustable shelves.

Depth of Unit	6 Shelves Average 16 1/2" c.c.	7 Shelves Average 13 1/2" c.c.	8 Shelves Average 12" c.c.	10 Shelves Average 9" c.c.	12 Shelves Average 7 1/2" c.c.	15 Shelves Average 6" c.c.	18 Shelves Average 4 1/2" c.c.
12" deep	60-6	60-7	60-8	60-10	60-12	60-15	60-19
18" deep	62-6	62-7	62-8	62-10	62-12	62-15	62-19
24" deep	64-6	64-7	64-8	64-10	64-12	64-15	64-19
36" deep	66-6	66-7	66-8	66-10	66-12	66-15	66-19

Width All units in table are 3' wide. To order 4' widths (in any depth except 36"), substitute "W" for "—" in catalog.
Example 60-6 is 3' wide. 60W6 is 4' wide.

Height All units in table are 7' high. Units available in all additional heights listed in "Uprights" section on Page 9.

70 Series—Closed Back and End

Make a convenient extra wall with these durable, 7'H x 3' or 4'W Iron Grip units. Or divide rooms while you expand storage functions. An economical, multi-use system engineered for versatile performance in any storage facility. Ribbed back and end panels minimize dust contamination while they efficiently contain shelf contents. Further customize closed back units by adding vertical dividers, drawers or doors. Whatever the make-up, Iron Grip stud assembly automatically increases its own load capacity. Quality manufactured with EQUIPTO dependability.

Depth of Unit	Starting or Additional Unit	6 Shelves Average 16 1/2" c.c.	7 Shelves Average 13 1/2" c.c.	8 Shelves Average 12" c.c.	10 Shelves Average 9" c.c.	12 Shelves Average 7 1/2" c.c.	15 Shelves Average 6" c.c.
12"	Start.	70-6	70-7	70-8	70-10	70-12	70-15
12"	Add'l.	71-6	71-7	71-8	71-10	71-12	71-15
18"	Start.	72-6	72-7	72-8	72-10	72-12	72-15
18"	Add'l.	73-6	73-7	73-8	73-10	73-12	73-15
24"	Start.	74-6	74-7	74-8	74-10	74-12	74-15
24"	Add'l.	75-6	75-7	75-8	75-10	75-12	75-15
36"	Start.	76-6	76-7	76-8	76-10	76-12	76-15
36"	Add'l.	77-6	77-7	77-8	77-10	77-12	77-15

Width All units in table are 3' wide. To order 4' widths (in any depth except 36"), substitute "W" for "—" in catalog.
Example 70-6 is 3' wide. 70W6 is 4' wide.

Height All units in table are 7' high. Units available in all additional heights listed in "Uprights" section on Page 9.

80 Series—Open Back**Closed End**

An economical unit for back-to-back use with closed back shelving, or against walls. Supplied in basic units 7'H x 3'W or 4'W. EQUIPTO closed end systems assemble quickly with remarkable Iron Grip strength. This unique modular system provides shelves that adjust in minutes, regardless of adjacent units, complete flexibility in moving any unit (even from the middle of a row), or the option of moving entire installations intact. Simply select a starting shelf unit, and add units as you wish, to complete rows.

Depth of Unit	Starting or Additional Unit	6 Shelves Average 16 1/2" c.c.	7 Shelves Average 13 1/2" c.c.	8 Shelves Average 12" c.c.	10 Shelves Average 9" c.c.	12 Shelves Average 7 1/2" c.c.	15 Shelves Average 6" c.c.
12"	Start.	80-6	80-7	80-8	80-10	80-12	80-15
12"	Add'l.	81-6	81-7	81-8	81-10	81-12	81-15
18"	Start.	82-6	82-7	82-8	82-10	82-12	82-15
18"	Add'l.	83-6	83-7	83-8	83-10	83-12	83-15
24"	Start.	84-6	84-7	84-8	84-10	84-12	84-15
24"	Add'l.	85-6	85-7	85-8	85-10	85-12	85-15
36"	Start.	86-6	86-7	86-8	86-10	86-12	86-15
36"	Add'l.	87-6	87-7	87-8	87-10	87-12	87-15

Width All units in table are 3' wide. To order 4' widths (in any depth except 36"), substitute "W" for "—" in catalog.
Example 80-6 is 3' wide. 80W6 is 4' wide.

Height All units in table are 7' high. Units available in all additional heights listed in "Uprights" section on Page 9.

Minute-Miser™

GASOLINE/OFF-ROAD
ELECTRIC/OFF-ROAD

0-44



The Cushman Minute-Miser has earned a reputation for efficient, dependable manpower mobility: the gasoline-powered model for longer-range work outdoors; the electric-powered Minute-Miser provides quiet, time-free operation indoors.



The gasoline Minute-Miser (Model 319) is powered by a 6.25-hp engine, and has a top speed of 14 mph (22.5 km/h), depending upon conditions. It is natural for a crew of two. Or flip up the rear passenger seat and it becomes a carrier for hauling up to

250 pounds (113 kg) of cargo over large areas. Between buildings, for example, or around an airport apron. But in a pinch, it is maneuverable enough to turn a complete circle in just 10' (304.8 cm).



The Model 320 Minute-Miser has the same cargo capacity and quick maneuverability as the Model 319, but it comes equipped with economical electric power. It gets that power from a 24-volt system that provides a top speed of 11 mph (17.7 km/h). It has a range of up to 35 miles (56.3 km) depending upon use, and uses a simple plug-in recharge system that charges the Minute-Miser's batteries overnight. And both models have a diamond plate steel body for durability throughout.

As wages increase and walking time becomes a bigger and bigger waste, these two Minute-Misers become a sounder and sounder investment in future productivity.

SPECIFICATIONS/MODELS 320, 327 & 328 ELECTRIC MINUTE-MISERS AND MODEL 319 GAS MINUTE-MISER

STANDARD EQUIPMENT/DIMENSIONS/ACCESSORIES/MODIFICATIONS

	ELECTRIC MODEL 320	GAS MODEL 319
POWER	Motor/Engine 0.8 hp at 2250 rpm, 2.7 hp at 900 rpm	6.25 hp Kohler, air-cooled, 4-cycle
	Governor —	Mechanical-type for overspeed control, fully enclosed
	Drive/Transmission Heavy-duty "V" belt.	Variable speed with heavy duty "V" belt, forward speeds only.
	DL/Overhaul Spur and helical gear reduction divides torque between rear wheels	Spur and helical gear reduction divides torque between rear wheels
STEERING	Handlebar-type	Handlebar-type
BRAKING	Drum brakes, brake with parking lock on rear wheels	Rod-operated, band-type.
ELECTRICAL	System 24-volt system uses 4 deep-cycling 6-volt batteries, sliding contact switch, resistor bank, system meets FM requirements	Gear-driven starter, 15-amp flywheel alternator.
	Charger 110-volt, AC power built-in automatic line compensating charger, automatic timer.	—
	Lights and Standard Equipment Headlight, taillight, stoplight, horn	Headlight, taillight, stoplight, horn.
SEAT	One passenger vinyl upholstered foam seat with backrest. Backrest pivots downward to provide seating for passenger.	One passenger vinyl upholstered foam seat with backrest. Backrest pivots downward to provide seating for passenger.
BODY	16-gauge, diamond plate floorboard and 18-gauge unitized body with carbon steel bumper	16-gauge, diamond plate floorboard and 18-gauge unitized body with carbon steel bumper.
COLOR	Yellow	Yellow
TIRES	4.00 x 8, 4-ply rating	4.00 x 8, 4-ply rating
SUSPENSION	Front Coil springs	Coil springs
	Rear Coil springs and shock absorber	Coil springs and shock absorber
DIMENSIONS	Overall Length 82" (2083 mm)	82" (2083 mm)
	Overall Height 36" (965 mm) (at handlebars)	36" (965 mm) (at handlebars)
	Overall Width 29 1/4" (749 mm)	34 1/4" (876 mm)
	Wheel base 48 1/4" (1232 mm)	48 1/4" (1232 mm)
	Tread (Rear) 23 1/4" (600 mm)	29 1/4" (749 mm)
	Weight 650 lbs (295 kg) with 180 amp battery	450 lbs (204 kg) with battery
	Storage Compartment 19 1/4" (495 mm) x 22 1/4" (575 mm) x 4 1/4" (114 mm)	19 1/4" (495 mm) x 22 1/4" (575 mm) x 4 1/4" (114 mm)
	Intersecting Axle Clearance w/handlebars Minimum intersecting axle 51" (129.54 cm) Outside clearance circle 10" (304.8 cm) Inside clearance circle turns about rear wheel.	Minimum intersecting axle 51" (129.54 cm) Outside clearance circle 10" (304.8 cm) Inside clearance circle turns about rear wheel.
	w/wheel-type Steering (Accessory) Minimum intersecting axle 54" (137.16 cm) Outside clearance circle 12" (365.75 cm) Inside clearance circle 36" (91.44 cm)	Minimum intersecting axle 54" (137.16 cm) Outside clearance circle 12" (365.75 cm) Inside clearance circle 36" (91.44 cm)
PERFORMANCE	Maximum Speed 11 mph (17.7 km/h) forward and reverse	14 mph (22.5 km/h) forward.
	Range Up to 35 miles (56.3 km) per charge, depending on use	—
	Payload 250 lbs (113 kg) plus operator	250 lbs (113 kg) plus operator
DEALER INSTALLED ACCESSORIES	Hourmeter, lift-out battery rack, spare tire 4.00 x 8, 4-ply, gear wheel-type steering	Hourmeter, spare tire 4.00 x 8, 4-ply, exhaust spark arrester, gear wheel-type steering
FACTORY INSTALLED MODIFICATIONS	Steel guard tires 4.00 x 8, 6-ply	Steel guard tires 4.00 x 8, 6-ply

MODEL 328 ELECTRIC MINUTE-MISER—same specifications as the 320 model with the following exceptions:

POWER	Motor 1.3 hp at 2600 rpm, 4.3 hp at 900 rpm
PERFORMANCE	Maximum Speed 2-speed, 11 and 6 mph (8.7 km/h) forward and reverse.

MODEL 327 ELECTRIC MINUTE-MISER—same specifications as the 320 with the following exceptions:

STEERING	Gear wheel-type
ELECTRICAL	Charger 110 volt AC power built-in automatic line compensating charger, automatic timer with Russell-Stoll AC charger plug

PERFORMANCE
Maximum Speed 8 mph (12.9 km/h)

*Specifications, standard equipment, accessories and modifications subject to change without notice

Cushman vehicles comply with ANSI B56 1-1969 as it applies to OSHA for Powered Industrial Trucks under the Type E or G Classification, for non-explosive environments.

The Minute-Miser Model has been approved by Factory Mutual Research Corporation (Classifications E and G). To meet the manufacturer portions of the OSHA requirements (as stated in section 1910.178, Paragraph a3) Powered Industrial Trucks must bear the approval mark of either UL (Underwriters Laboratory) or FM (Factory Mutual) or other nationally recognized testing laboratories.

Gradeability* ELECTRIC MODEL 327 & 328.

(On relation to gross vehicle weight)

Gross Vehicle Weight		Gradeability for unlimited distances at 0.5 mph (0.8 km/h) & faster		Gradeability for unlimited distances at 1 mph (1.6 km/h) & faster
		0.5 hp motor	1.5 hp motor	0.5 hp motor
800	363	7%	17%	41%
900	408	6%	15%	36%
1000	454	5%	13%	32%
1100	499	5%	12%	28%

Drawbar Pull (Level Ground)

Vehicle Speed		0.8 hp Motor		Max. Dist. of Travel
mph	km/h	Drawbar	Pull	
2	3.2	306	139	44
3	4.8	258	117	66
4	6.4	216	98	88
5	8.1	156	71	110
6	9.7	120	54	132
7	11.3	84	38	154
8	12.9	66	30	Unlimited
9	14.5	48	22	"
10	16.1	36	16	"
11	17.7	25	11	"

Vehicle Speed		1.3 hp Motor		Max. Dis. of Trk.
mph	km/h	Drawbar	Pull lb	
2	3.2	498	226	44
3	4.8	408	185	66
4	6.4	306	139	88
5	8.1	234	106	110
6	9.7	180	82	132
7	11.3	132	60	Unlimited
8	12.9	96	44	"
9	14.5	72	33	"
10	16.1	54	24	"
11	17.7	42	19	"

Gradeability* GAS MODEL 319 (In relation to gross vehicle weight)

Gross Vehicle Weight**	Maximum Grade at 1 mph (1.6 km/h)
Rear	Front
500 227	50%
600 272	80%
700 318	45%
800 363	40%
900 408	25%

Drawbar Pull (Level Ground)

Speed		Drawbar	
mph	km/h	Rear	Front
10.0	16.1	150	96
13.2	21.2	110	50
13.6	21.9	90	41
14.3	23.0	15	1

*Gross vehicle weight equals weight of the vehicle plus operator, plus payload.

**Calculated equivalent based on available power efficiency and axle ratio.

Executive™

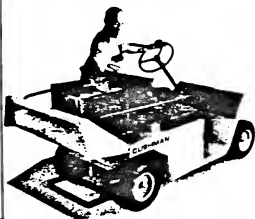
ELECTRIC/OFF-ROAD

0-45



Productivity plus comfort. That's the Cushman Executive. It gives you the unbeatable versatility of a quiet, fume-free personnel and cargo carrier that saves you energy coming and going.

With the backrest and the rear footrest down, the Executive is capable



of carrying a driver and three passengers. This makes the Executive ideal for in-plant tours for visiting dignitaries or for mobilizing security or work crews.

With the rear footrest and backrest up, the Executive has the capacity to carry a crew of two, plus up to 500 pounds (227 kg) of tools, small parts, packages or other cargo. And its narrow 43" (1092 mm) width and tight

18-foot (5.5 m) clearance circle lets those crews get to places where a larger vehicle is impractical.

A practical 36-volt electrical system powers the Executive at speeds of up to 8 mph (12.9 km/h). The range of the



Executive is about 35 miles (56 km) per charge, depending upon use, and an automatic line-compensating charger (standard) makes recharging easy. Just plug the Executive into any 120-volt outlet for overnight recharging. Or purchase a second lift-out battery rack to avoid recharging downtime.

Equipped with an optional weatherproof cab and doors, the Executive is equally versatile outdoors, in parks, airports or universities. Ask your Cushman Dealer for a free demonstration at your facility and talk to him about the wide variety of accessories to match the Executive to your needs.

When you need a low-cost, versatile transportation vehicle to show off your facility to visitors, or to keep security, supervisory or maintenance personnel off their feet, you need a Cushman Executive.

SPECIFICATIONS/MODEL 322 EXECUTIVE VEHICLE

STANDARD EQUIPMENT/DIMENSIONS/ACCESSORIES/MODIFICATIONS

POWER	Motor	36-volt, DC series wound, 2 hp at 2800 rpm, 5 hp at 800 rpm
	Drive	Notched triple V-belt
STEERING	Differential	Worm driven, aluminum housing, 13:1 ratio
		Wheel-type
BRKING		Differential mounted disc brake, Parking lock
ELECTRICAL	System	36-volt system, sliding contact switch, System meets FM requirements
	Charge	25 amp automatic line compensating built-in battery charger
SEAT	Lights and Standard Equipment	Taillight, spotlight, horn
		Full-width bench type vinyl upholstered foam seat with full width backrest. Backrest pivots downward to provide seating for two additional passengers.
BODY		16-gauge diamond plate steel with reinforcing members welded to give extra strength.
COLOR		Yellow
TIRES		4.00 x 8, 4-ply rating
SUSPENSION	Front	Coil springs and shock absorber
	Rear	Coil springs and shock absorber
DIMENSIONS	Overall Length	91 1/4" (2330 mm)
	Overall Height	44 1/4" (1130 mm) with cab 66" (1676 mm)
	Overall Width	43" (1092 mm)
	Wheel Base	59 1/4" (1505 mm)
	Tread (Front)	32 1/4" (819 mm)
	Tread (Rear)	32 1/4" (819 mm)
	Intersecting Aisle Clearance	Minimum intersecting aisle 69" (1752 mm) Outside clearance circle 18" (457 mm) Inside clearance circle 86" (2184 mm)
PERFORMANCE	Weight	970 lbs. (440 kg) with 190 amp batteries
DEALER INSTALLED ACCESSORIES	Speed (Maximum)	8 mph (12.9 km/h) forward and reverse
	Range	Up to 35 miles (56 km) per charge, depending on use
	Payload	500 lbs. (227 kg) plus operator and passenger
FACTORY INSTALLED MODIFICATIONS		Cargo area set, lift-out battery rack, steel cab and doors, front bumper, headlight, spare tire
		5.70 x 8 tires, 6.50 x 8 tires

*Specifications, standard equipment, accessories and modifications subject to change without notice.

Cushman Electric vehicles comply with ANSI B56.1-1969 as it applies to OSHA for Powered Industrial Trucks under the Type E classification, for non-explosive environments.

Executive Models have been approved by Factory Mutual Research Corporation (Classification E). To meet the manufacturer portions of the OSHA requirements (as stated in section 1910.178, Paragraph a3) Powered Industrial Trucks must bear the approval mark of either UL (Underwriters Laboratory) or FM (Factory Mutual) or other nationally recognized testing laboratories.

Gradeability*

(In relation to gross vehicle weight)

Rm	Kg	Unlimited	Unlimited
1100	499	18%	50%
1200	544	17%	50%
1300	590	16%	48%
1400	635	15%	44%
1500	680	14%	40%
1600	726	13%	37%

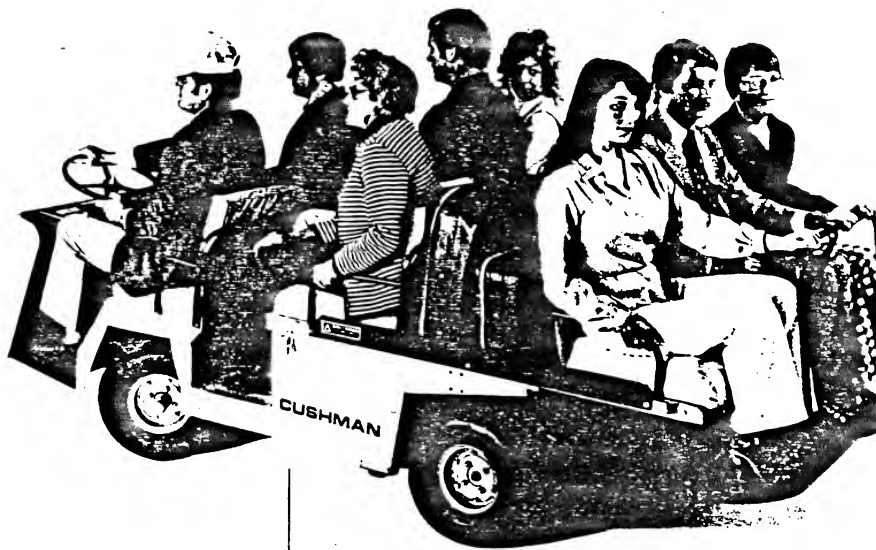
Drawbar Pull

(Level Ground) (4.00 x 8 tires)

Vehicle Speed		Drawbar Pull		Max. Distance of Travel	
MPH	Km/h	Rm	Kg	Feet	Meters
2	2.6	680	295	44	13.4
3.1	5.0	430	195	68	20.7
3.8	6.1	320	145	83	25.3
4.6	7.4	245	111	Unlimited	Unlimited
6.2	10.0	116	53	Unlimited	Unlimited
7	11.3	93	42	Unlimited	Unlimited
8	12.9	60	27	Unlimited	Unlimited

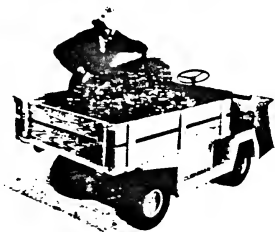
*Gross vehicle weight equals weight of the vehicle plus operator, plus payload.

*Calculated equipment based on available power, efficiency and axle ratio.



TITAN 318

Quick mobility. It makes the Cushman Model 318 Titan especially well-suited for use around government installations, airports or industrial parks where rapid transportation is a



special part of that engineering is a circuit control system which is an engineering breakthrough in electric vehicle design.

This resourceful new use of energy is called the Cushman Battery-Tapping System. This system is patented and involves a controller system which draws electric power as needed, but alternates the sequence of battery introduction into the circuit, so the charge of all the batteries in the system remain relatively balanced.

The result is smoother acceleration control and longer useful battery life. If you've been looking for a vehicle for a job you thought was too tough for an electric, the 317 will be big vehicle news for you.

necessity and quiet fume-free electric power is a welcome luxury.

A 48-volt electrical system provides the power to move the 318 at a top speed of 20 mph (32.3 km/h) and a range of up to 28 miles (45.1 km) per charge, depending on use.

And it has the same 49" (1245 mm) width and 20-foot (5.9 m) turning area as other Titans, so it can handily pick its way through congested parking areas or narrow aisles.

Whatever your needs, there is a Titan to meet them. A Titan that is packed full of productivity (see the following pages for specifications), and available with a fistful of accessories to make it just right for your job. Call your Cushman Dealer today for a free demonstration of the Cushman Titan.

SPECIFICATIONS/MODEL 317 TITAN TITAN TITAN

STANDARD EQUIPMENT/DIMENSIONS/ACCESSORIES/MODIFICATIONS

POWER	Motor	36-volt, DC series, up to 5.4 hp at 2000 rpm, and 8 hp at 1400 rpm (when operated at 48 V).
	Drive	Heavy-duty 3 V-belts
	Differential	Worm driven, full recessed gearing, aluminum housing, 13:1 ratio
STEERING		Wheel-type, 16:1 ratio
BRAKING		Hydraulic on rear wheels, mechanical parking brake acts on rear wheels
ELECTRICAL	System	48-volt system uses eight 6-volt batteries. Covered sliding contact battery-tapping system. System meets FM requirements.
	Charger	Fully automatic, 12-volt compensating battery charger.
	Lights and Standard Equipment	Tailight, spotlight, horn
SEAT		Full-width bench-type vinyl upholstered foam seat with full width backrest
BODY		16-gauge diamond plate steel rear deck and front panel, side body panels are 12-gauge steel
COLOR		Yellow or white
TIRES		5.70 x 8, 4-ply rating, rib tread
SUSPENSION	Front	Special design rubber suspension.
	Rear	Coil springs and shock absorber
DIMENSIONS		
	Overall Length	106" (2692 mm)
	(with 5 passgr. seat)	116" (2946 mm)
	(with 8 passgr. seat)	124" (3162 mm)
	Height of Cab	65 1/4" (1670 mm)
	Height of Bed	26 1/4" (673 mm)
	Overall Width	49" (1245 mm)
	Bed Size	61 1/4" (1562 mm) long x 45 1/4" (1162 mm) wide
	Wheel Base	55" (1397 mm)
	Wheel Tread	36" (914 mm)
	Intersecting Axle Clearance	Minimum intersecting axle 64" (1626 mm) Outside clearance circle 19 1/2" (493 mm) Inside clearance circle 68" (1727 mm)
	Weight	1385 lbs. (628 kg) with 190 amp batteries
PERFORMANCE		
	Speed (Maximum)	12 mph (19 km/h) forward and reverse
	Range	Up to 45 miles (72 km) per charge, depending on use
	Payload	1500 lbs. (680 kg) plus operator and one passenger.
DEALER INSTALLED ACCESSORIES		
		Front and rear facing personnel seat, pin and clevis trailer hitch (w/out ball), pintle hitch, automatic hitch, canopy, fiberglass cab, cloth doors, turn signals, electric windshield wiper, hourmeter, headlight set, 43" (1092 mm) x 16" (406 mm) x 17" (432 mm) high tool box, stake racks, front bumper, front shocks, spare tire
FACTORY INSTALLED MODIFICATIONS		
		Steel guard tires, wide tires, front hydraulic brakes, white seats

***Gradeability**

12 MPH (19 km/h) Titan

1500 lb. (680 kg) Payload Rating

Gross Vehicle Weight**		Gradeability for Unlimited Distances at 6.5 MPH (10.5 km/h) & Faster	Gradeability for Limited Distances at Less Than 6.5 MPH (10.5 km/h)
lbs.	kg		
1400	635	14%	36%
1800	726	12%	33%
1800	816	11%	29%
2000	907	10%	26%
2200	998	9%	23%
2400	1089	8%	21%
2600	1179	7%	20%

Drawbar Pull (Level Ground)

12 MPH (19 km/h) Titan

1500 lb. (680 kg) Payload

Vehicle Speed		Drawbar Pull
mph	km/h	lbs.
3.2	5.1	365
4.0	6.4	260
6.0	9.7	195
8.0	12.9	120
12.0	19.3	40

*Calculated equivalent based on available power, efficiency, and axle ratio.

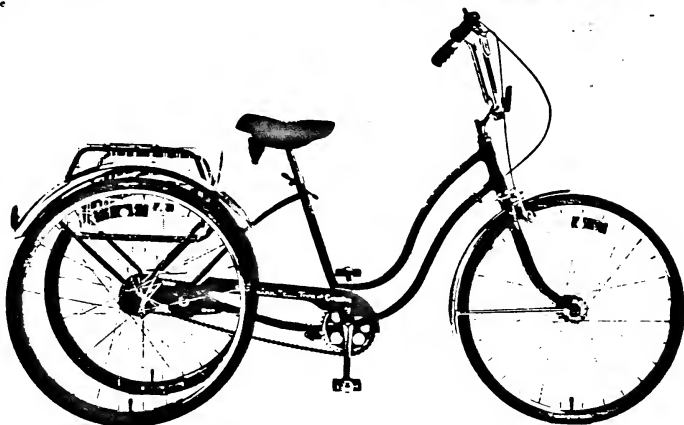
**Gross vehicle weight equals weight of the vehicle, plus operator(s), plus payload.

Towing not recommended at speeds greater than 12 MPH (19.3 km/h)

*Specifications, standard equipment, accessories and modifications subject to change without notice

TOWN & COUNTRY® TRI-WHEELER

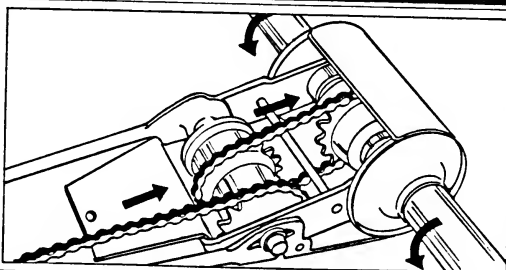
Town and Country Tri-Wheeler—AT2
Colors: Sky Blue



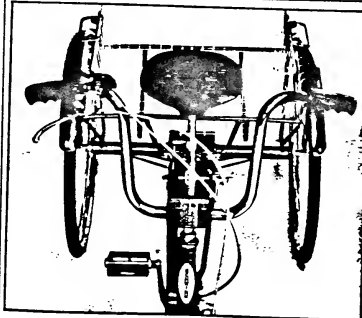
Security and large basket capacity for shopping or business delivery

For exercise, errands and ease of operation, nothing fits the bill like a sturdy Tri-Wheeler! You can feel secure at all times aboard the Tri-Wheeler—it's easy to get on and off, very stable and perfect for a relaxed pace. Differential drive, 3-speeds, parking brake, heavy duty front hub and Schwinn-built steel rims are all standard equipment.

The Schwinn Tri-Wheeler, also preferred for light industrial use, makes its rounds quietly and efficiently.



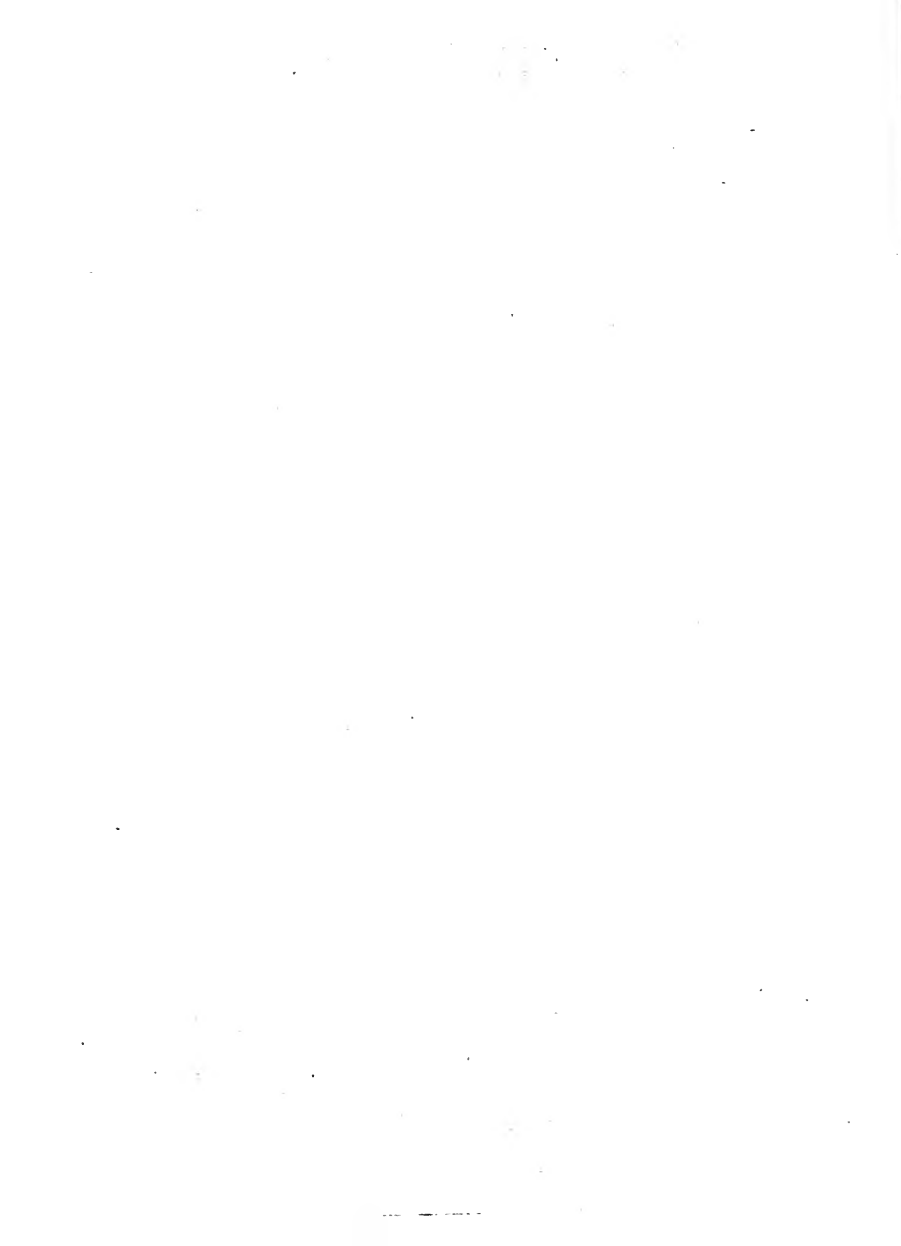
Unlike most other three-wheelers, the Schwinn Town & Country Tri-Wheeler distributes its power through both rear wheels, not just one. This differential-type drive transmission allows the rear wheels to turn at different speeds, which gives you much better control of your machine—particularly when cornering.



Front view of the Town and Country Tri-Wheeler. Upright handlebars and soft saddle provide both easy handling and a pleasurable ride.



The spacious, fully detachable vinyl-coated wire basket holds a load of packages and comes with convenient handles for easy carrying.





CATERPILLAR LIFT TRUCKS

0-50

MAJOR

4000 lb (2000 kg) at 24 in (500 mm) Load Center **Electric**

MOTORS — Ventilated. Meet UL Specification 583 for Type E trucks. Class H insulation. Bearings prepacked and sealed. Four double sets of brushes in one-piece, stainless steel holders. Optional brush wear indicator. Series wound drive and pump motors. Permanent magnet motor for power steering pump, located beneath floor plate, swings up for service.

CATERPILLAR LIFT AND DRIVE CONTROL (LDC) — Drive System —

Three preset speed ranges provide acceleration from inching to top travel speed

- Silicon controlled rectifiers (SCR) control speed to 80% of top travel speed by pulsating current flow from battery.
- BYPASS CONTACTOR connects motor and battery directly to increase travel speed.
- FIELD SHUNT reduces motor field strength for maximum travel speed.

Hydraulic System — Lift Mode — Lift lever controls pump motor speed. **Tilt and Auxiliary Mode** — Adjustable hydraulic motor speed with pump output variable from zero (0) through 21 GPM (79.5 LPM). Factory-set speeds can be increased or decreased to match user needs. Consult your Dealer.

Additional control panel features:

- Thermal protectors help prevent damage from motor and panel overheating
- Regenerative braking — Drive motor acts as a generator during electrical braking and increases motor brush life.
- In-line contactor between LDC panel and battery interrupts power when operator leaves the seat or turns off key switch.
- Fault detector circuit cuts power to the drive motor if SCR shorts or if bypass contactor tips weld.
- Static return to neutral — Control lever must be returned to neutral and direction reselected if operator leaves the seat or turns off key switch.
- Anti-rollback — Operator can stop and restart on ramps or grades.
- Double break contactors improve tip life.

SB or EC connectors available. Position B (right side) standard.

POWER — 36/48 volt Lead acid battery. Side panels available for EE applications. ABS plastic cover protects battery top. Standard compartment accommodates batteries of these maximum ratings:

Volts	Total Cells	Plates	Cells	Maximum Ampere-Hour Capacity Rating
36	18	25	3 x 6 S	1020
48	24	19	4 x 6 S	765

DRIVE AXLE — Permanently sealed Beam integral with frame. Tapered roller bearings. Single reduction differential with hypoid ring and two-pinion gear set. Spined, double universal joint connects differential and drive motor. Optional high efficiency differential provides slower travel speed for extended battery life.

BRAKES — **Hydraulic** — Self-energizing, self-adjusting. Internal expanding brakes in drive wheels provide 68 in² (440 cm²) of effective brake lining. **Mechanical** — Hand applied disc parking brake standard. Optional parking brake automatically applied when operator leaves the seat. **Electrical** (Plugging) — Regenerative braking. Smooth deceleration when operator reverses direction.

FRAME — Box-type with 0.55 in (14 mm) steel outer members provides 4-point lifting locations. Optional towing eye 11.5 in (292 mm) above floor.

STEER AXLE — Fabricated beam with center pivot lever. Forged alloy steel tie rods and knuckles. Knuckles mounted with anti-friction thrust and radial bearings. Sprunion design provides even, 4-wheel contact on rough surfaces.

STEERING GEAR — Power steering standard. System features a control valve integral with steering gear and an independently filtered hydraulic system.

OPERATOR'S COMPARTMENT — Semi-bucket seat adjusts fore and aft in eight 0.5 in (13 mm) increments.

INSTRUMENTATION — Panel contains a color coded battery discharge level indicator with lift interrupt light; direct reading hour meter; key type energizing switch; and "power-on" light. Two light emitting diodes (LED) signal if lift or drive system overheats. Optional pump and drive motor brush wear (LED) indicators. Yellow fault light flashes when an LED signal is activated.

PROTECTIVE FEATURES — Overhead guard, 48 in (1219 mm) high load backrest, and skid resistant tread floor plates.

STANDARD, FULL FREE AND FULL FREE TRIPLE MASTS — Roller construction. Stationary members mount to frame on two lubricated pins. J-beam elevating sections extend on four rollers with standard and full free masts and on six with the full free triple mast. Piston type lift cylinders with leaf lift chains. Optional high visibility 26.5 in (670 mm) wide standard and full free masts.

CARRIAGE — Hook carriage, two bar construction conforms to ITA and FEM Class II mounting. Carriage operates on six permanently lubed load rollers and six side-thrust rollers. Carriages adaptable among 22.5 in (570 mm) standard, full free and full free triple masts.

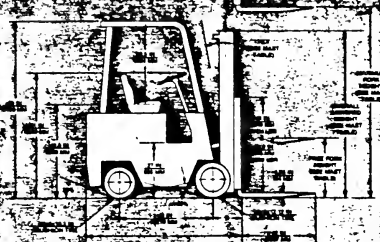
HYDRAULIC SYSTEM — Gear-type pump. Three-section control valve has fully balanced, self-centering plungers and a pressure relief valve. Flow control valve in the lift cylinder base regulates carriage lowering speed. Double-acting tilt cylinders with heavy chrome plated rods and spherical bushings increase packing life. Anti-cavitation valve helps prevent hydraulic voids in the tilt circuit.

FORKS — Standard Pallet, Wedge Taper or Fully Tapered and Polished.

PAINT — Caterpillar Yellow with non-reflecting black overhead guard, dash and trim.



Model M40B



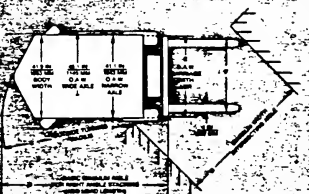
BATTERY COMPARTMENT
 48" WIDTH ALTHOUGH 1700 MM
 22" DEPTH ALTHOUGH 560 MM
 22" HEIGHT ALTHOUGH 560 MM

OVERALL DIMENSIONS
 48" WIDTH ALTHOUGH 1700 MM
 22" DEPTH ALTHOUGH 560 MM
 22" HEIGHT ALTHOUGH 560 MM

WHEELS
 48" WIDTH ALTHOUGH 1700 MM
 22" DEPTH ALTHOUGH 560 MM
 22" HEIGHT ALTHOUGH 560 MM

MAST
 48" WIDTH ALTHOUGH 1700 MM
 22" DEPTH ALTHOUGH 560 MM
 22" HEIGHT ALTHOUGH 560 MM

TRUCK BODY
 48" WIDTH ALTHOUGH 1700 MM
 22" DEPTH ALTHOUGH 560 MM
 22" HEIGHT ALTHOUGH 560 MM



Dimensions

STD & FF	80	2030	14.3	362	72	1820	75	1850	86	2190	87	2210
FF	82	2090	14.4	417	—	—	75.5	1860	—	—	88.5	2280
STD & FF	36	4	1000	34.5	427	—	—	—	—	—	—	—
FF	36.3	4	1100	40.4	1027	—	—	—	—	—	—	—
STD & FF	36	4	1000	34.5	427	—	—	—	—	—	—	—
FF	36.3	4	1100	40.4	1027	—	—	—	—	—	—	—

NOTE: Nominal performance specifications shown may vary depending on standard manufacturing tolerances, vehicle condition, application, configuration, or operating environment. Specific performance requirements should be discussed with your Caterpillar Lift Truck Dealer. Materials and Specifications are subject to change without notice.

Top Travel Speed

36 Volt	7.1	11.5	6.2	9.9	8.7	10.7	5.8	9.1
48 Volt	8.1	14.7	8.1	13	8.5	13.6	7.3	11.6

Capacity at Various Load Centers

18	400	4000	2225	5000	2225
18	450	4750	2125	4700	2125
20	500	4450	2000	4450	2000
22	550	4200	1900	4200	1900
24	600	4000	1800	4000	1800
26	650	3800	1700	3800	1725
28	700	3600	1625	3650	1650
30	750	3450	1550	3450	1550
32	800	3300	1475	3300	1500
34	850	3100	1400	3150	1425
36	900	3000	1350	3050	1375
38	950	2850	1275	2900	1300
40	1000	2700	1225	2800	1250
42	1050	2600	1175	2650	1200
44	1100	2500	1125	2550	1150
46	1150	2400	1075	2450	1100
48	1200	2300	1050	2350	1075

Capacities apply to Fork Heights with mast vertical through 156 in (4010 mm) when truck is equipped with Standard Carriage and two Pallet forks approximately 50% longer than the load center. Rate may be increased for some mast combinations. Consult your Caterpillar Lift Truck Dealer.

Mast Performance

STANDARD							
STANDARD	41 in (1043mm) for 22 in (570mm) D A W Mast or 45 in (1145mm) for 26 in (670mm) D A W Mast	107	2710	71	1800	13.1	332
		118	3010	77	1950		
		130	3310	82.5	2100		
		142	3610	88.5	2250		
		154	3910	94.5	2400		
FULL FREE		167	2710	71	1800	47	1190
		118	3010	77	1950	53	1340
		130	3310	82.5	2100	58	1490
		142	3610	88.5	2250	64.5	1640
		156	3960	71	1800	47	1190
FULL FREE TRIPLE	45.1 1145	173	4410	77	1950	53	1340
		181	4860	82.5	2100	58	1490
		200	5310	88.5	2250	64.5	1640
		227	5760	94.5	2400	70.5	1790

*45 in (1143 mm) Overall Width Wide Drive Axle and S Backlift required with 26 in (670 mm) Overall Width Mast.

**Free Fork Height based on a Hook Carriage without Load Backrest.

Additional Fork Heights available. Consult your Caterpillar Lift Truck Dealer.

Lift-Lowering Speed

Empty	Standard	80	0.45	113	0.58	80	0.41	104	0.53	106	0
	Full Free	85	0.33	64	0.42	58	0.30	78	0.38	78	0
	Full Free Triple	80	0.35	80	0.46	82	0.32	81	0.41	80	0
Loaded	Standard	80	0.30	80	0.39	56	0.27	73	0.36	105	0
	Full Free	48	0.23	81	0.30	42	0.21	56	0.28	85	0
	Full Free Triple	47	0.23	84	0.32	44	0.22	58	0.29	102	0

APPROVALS

ANSI - Meets or exceeds American National Standards Institute B56.1-1975, Part II, Safety Standards for Powered Industrial Trucks.

FEM - Federation Europeenne de la Manutention, Section IV, Safety Standards for the Manufacture of Powered Industrial Trucks.

UL - Classified by Underwriters' Laboratories, Inc. as to fire and electric shock hazard only. Types E or EE Industrial Trucks.
 Availability: 36 and 48 Volt Powered Trucks - Types E and EE.

FM - Factory Mutual approved types - E and EE.

CEHMO080 5/80
 (Replaces CEHMO052)

Caterpillar Lift Trucks produced in U.S.A. are manufactured by Towmotor Corporation, subsidiary of Caterpillar Tractor Co. Caterpillar, CAT and  are Trademarks of Caterpillar Tractor Co. Towmotor is a Trademark of Towmotor Corporation.

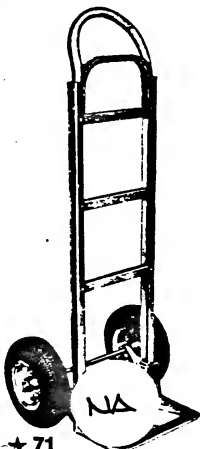
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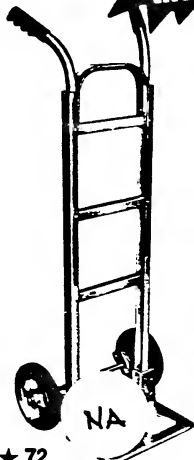
HAMILTON / "ULTRA-LITE" HAND TRUCKS

★ All models available PRONTO!



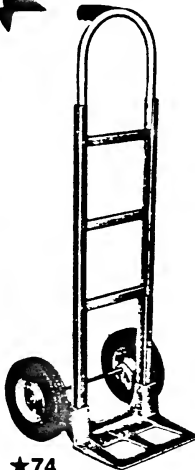
★ 71

- ☐ Frame reinforced at top for extra strength!



★ 72

- ☐ Double handles with vinyl grips for heaviest loads!



★ 74

- ☐ Pistol handle grip for bottles and cases!



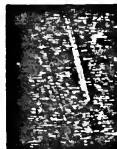
★ 77

- ☐ Smaller openings for carrying smaller cartons!

Designed for safe, easier handling in the Seventies! Prevent strain and fatigue on drivers of bottlers' trucks, furniture or department store vans, etc. Lightweight aluminum frames — extruded channel side rails with tubular cross members insure long-lived durability. Integrally die-cast aluminum nose plate/axle bracket tapers all around leading edge for fastest loading, interlocks with frame and axle for maximum strength.

Frame Height 48" Wt. (less accessories) 20 lbs.
 Frame Width 12" Anti-oxidant finish... Riveted cross members Bolted
 Nose Plate... 14" w. x 7 1/2" d. nose, handles and accessories.
 Wheel Diameters... 8" or 10" Load capacity 500 lbs.

OPTIONAL ACCESSORIES



HEIGHT EXTENSION. Retractable aid for hotel, motel use. To order add suffix "GH" (available only on Models 71 and 72, or when height extension is ordered).



GARMENT HOOK. Retractable aid for hotel, motel use. To order add suffix "GH" (available only on Models 71 and 72, or when height extension is ordered).



STAIR CLIMBERS. With built-in wear strip to increase strength and mobility for going up and down stairs or curbs. To order add suffix "SC".

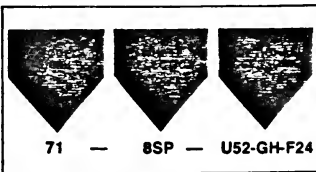


FOLDING BAGGAGE RACK. Sturdy channel baggage rack 24" long folds up when not in use. To order add suffix "F24".

WHEEL SELECTION	Size	Type (Ball Bearings)	Replacement Wheel No.
	8 x 1 1/2	Alum. Center Moldon Rubber	W-815-ALR-1/2
	8 x 2.50	Semi-Pneumatic	W-8-OSP-1/2
	10 x 2.75	Semi-Pneumatic	W-10-OSP-1/2
	4.10/3.50-4	Full Pneumatic	W-8-PR-1/2

HOW TO ORDER: Select base model, wheels and accessories. In example shown below, Model 71 would include 8 x 2.50 Semi-Pneumatic wheels, a 52" height extension with garment hook, and folding baggage rack.

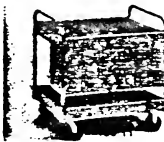
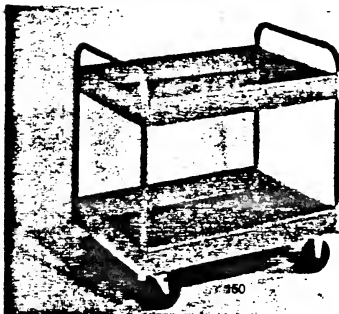
SPECIAL NOSE-PLATE DECALS available with Coca-Cola, Pepsi-Cola, 7-Up, Dr. Pepper and Canada Dry trademarks if specified. For dealer name or other special designs, consult factory.



STOCK TRUCKS

Rugged trucks with or without drawers, for easy, portable use. Heavy-duty helpers to handle the most demanding jobs.

Efficient mobile trucks with optional drawer storage. Quality one-piece tray construction, with strong, tubular posts and integral handles. These superior trucks provide 4" deep, reversible steel trays with beaded edges. 5" rubber casters (2 swivel, 2 stationary) for smooth rolling. Welded drawer units with dividers provide extra storage capacity for tools and supplies. Ideal for maintenance departments. See Drawer section for other drawer units to add.



Stock Trucks—36" High

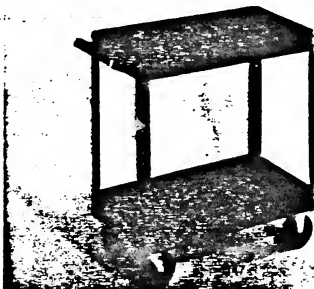
Catalog No.	Width	Tray Length	Depth	Capacity lbs.
145	16"	30"	4"	500
150	24"	36"	4"	500
145D	16"	30"	4"	800
150D	24"	36"	4"	800

Units with Drawers

Catalog No.	No. of Shelves	No. of Drawers	Capacity lbs.
145-8	2 - 16"x30"	8 - 11" deep	500
145D-8	2 - 16"x30"	8 - 11" deep	800
150-8	2 - 24"x36"	8 - 11" deep	500
150D-8	2 - 24"x36"	8 - 11" deep	800
150-11	2 - 24"x36"	18 - 11" deep	500
150D-11	2 - 24"x36"	18 - 11" deep	800
150-22	2 - 24"x36"	18 - 17" deep	500
150D-22	2 - 24"x36"	18 - 17" deep	800

Now—the stock truck you can count on for years of dependable service. Heavy-gauge steel, quiet rubber casters and Equipito precision design.

Free-wheeling, 5" caster wheels (2 swivel, 2 stationary) and a steering handle pave the way for easy, smooth transport of stock. Adjustable trays are supported by strong, C-shaped corner posts. Upper trays can be used flange-up as shown or inverted for flat surface. Safe, rounded edges, convenient, adjustable trays.



Two-Tray Trucks—33" High

Catalog No.	Width	Tray Length	Depth	Capacity lbs.
147	16"	30"	3"	500
152	24"	36"	3"	500
147D	16"	30"	3"	800
152D	24"	36"	3"	800

Three-Tray Trucks—33" High

Catalog No.	Width	Tray Length	Depth	Capacity lbs.
156	16"	30"	1 1/4"	500
161	24"	36"	1 1/4"	500
156D	16"	30"	1 1/4"	800
161D	24"	36"	1 1/4"	800

Four-Tray Trucks—33" High

Catalog No.	Width	Tray Length	Depth	Capacity lbs.
155	16"	30"	1 1/4"	500
160	24"	36"	1 1/4"	500
155D	16"	30"	1 1/4"	800
160D	24"	36"	1 1/4"	800

When you have big jobs to handle, select Equipito 5' high multiple tray trucks to collect, store and deliver materials. They expedite operations and offer an extended lifetime of service.

The large truck with the big capacity. Each vehicle is 5' high, has an 800 lb. capacity and moves on 5"x1 1/4" casters (2 swivel, 2 stationary). Strong, C-shaped corner posts add rigidity to heavy-gauge steel construction. Reversible trays and the steering handle adjust on 1 1/2" centers.

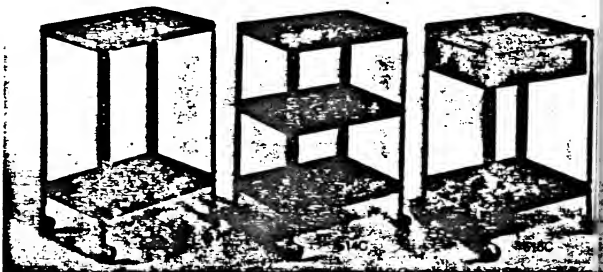
5' High Trucks

Catalog No.	No. of Shelves	Width	Shelf Length	Depth	Capacity, lbs.
163D	4	16"	30"	3"	800
165D	4	24"	36"	3"	800
164D	5	16"	30"	1 1/4"	800
166D	5	24"	36"	1 1/4"	800



Tool Toters and Tool Stands

A choice of stationary and mobile units to do 1001 jobs. Store supplies, parts and tools, and move them quickly and easily to other areas. Rugged, adjustable units in four versatile Equipito styles.



Choose functional shelf units, or combination shelf-and-drawer models—with casters or stationary—in a variety of styles and sizes. Rugged steel, C-shaped legs support trays in 2 depths; center shelf adjusts on 1 1/2" centers. Mobile units have 2 1/2" casters; stationary stands feature steel glides. Height with casters: 35 1/4"; without casters: 32 1/4".

Little Gem Drawer Trays

Keep small parts organized and accessible by placing Little Gem® Trays inside stationary or mobile single-drawer units. Expand drawer storage and make doubly efficient use of available space.

8522 Scoop Bottom, Type A, 12 adjustable compartments.

8523 Flat Bottom, Type B, 16 adjustable compartments.



Two-Shelf Units

Catalog No.	Catalog No. with Casters	Width	Shelves Length	Depth
510	510C	18"	24"	1 1/4"
511	511C	16"	30"	1 1/4"
513	513C	24"	36"	1 1/4"
531	531C	16"	30"	3"
533	533C	24"	36"	3"

Three-Shelf Units

514	514C	18"	24"	1 1/4"
515	515C	16"	30"	1 1/4"
517	517C	24"	36"	1 1/4"

Units with Drawer, 6 1/4"x15"x23 1/4"

Catalog No.	Catalog No. with Casters	No. of Shelves	Width	Shelves Length
518	518C	2	18"	24"
520	520C	2	24"	36"
534	534C	2	24"	36"
521	521C	3	18"	24"
523	523C	3	24"	36"

Units with Drawer, 7 1/4"x21 1/2"x23 1/4"

524	524C	2	24"	36"
525	525C	3	24"	36"
535	535C	3	24"	36"

FINGERTIP
CONTROL



FULLY HYDRAULIC HAND PALLET TRUCK

Model BTL-2000
4500 Lb. Capacity

- LIFTING
- NEUTRAL POSITION
- LOWERING

Safety hand
grip protects
hands against
injuries

Finger Tip Control
Features full
control of all
operations from
any low bar
position

Spring loaded tow
bar assumes
vertical position
when released

The rugged quality construction and functional design of BT Hand Pallet Trucks is known all over the world. Over 225,000 BT Trucks are currently in use reducing costs and simplifying work wherever goods are handled on pallets or skids.

The innovative design of Model BTL-2000 is a result of 25 years of leadership in the manufacturing of Hand Pallet Trucks. It is designed and built for its job by specialists who know and understand its wide use and operational demands.

Model BTL-2000 is the first Hand Pallet Truck to feature full control of all operations at your fingertips. A full safety loop handle protects the operator's hands as he actuates a single lever to a lift, lower or neutral position. There are no foot control pedals so operator keeps both feet safely on the floor. The neutral position permits the operator to select the best pumping position and allows the handle to move freely when the load is in motion. The lowering speed is infinitely variable. Slow for fragile loads, lightning fast in emergencies.

The pressed high tensile steel frame has been redesigned to incorporate a lower overall profile and high load capacity of 4500 lbs., low net weight, 148 lbs.

The entire hydraulic unit may be disassembled, repaired and reassembled eliminating the high replacement costs inherent in completely sealed units. Grease fittings are provided for instant lubrication that results in longer truck life and smoother handling.

Nylon climber wheels
for easier pallet entry

10 grease fittings for easy
lubrication and long
service life.

Steering and fork wheels run in enclosed
double SKF Ball bearings. Your choice
of wheels in polyurethane, nylon, and
steel.

Hydraulic unit with built-in neutral position.
Allows pumping at angle most convenient to
the operator. The handle moves freely when
load is in motion.

Special high tensile steel frame combines low
weight with big load capacity and good
stability. Load capacity 4500 lbs., wt. 148 lbs.



BT LIFT, INC.



TECHNICAL DATA

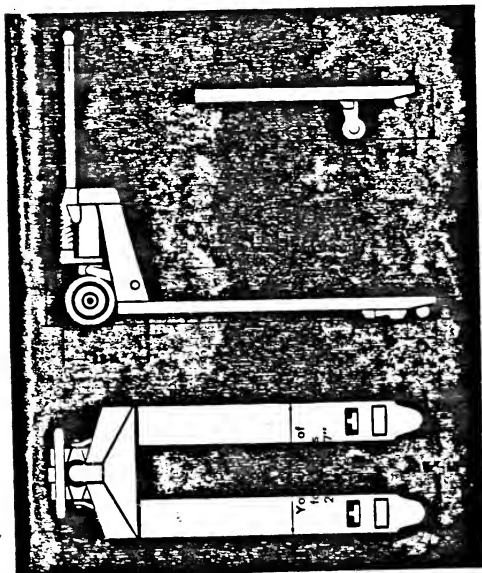
SPECIFICATIONS BTL-2000

Max. load capacity	4500 lbs.	Fork length standard	32"-36"
Min. fork height	3 1/4"		42"-48"
Max. fork height	8"	Wheel Dimensions	
Width overall forks standard	20 1/2"-27"	Steering Wheels	7" x 2 1/2"
Width of fork tines	6"	Fork Wheels, single	3 3/4" x 4"
Distance between fork tines	8"-15"	Weight, Nylon Wheels	148 lbs.

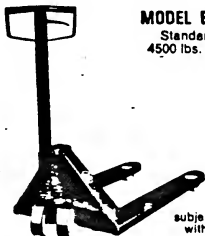
All popular attachments available
Specifications subject to change without notice

Pallet lift trucks are essential for efficient materials handling, when large loads are stored on pallets or skids. BT Lift Trucks are made of special high tensile steel, resulting in 50% more strength and lower total truck weight. Their special rugged construction and low price have made the BT Pallet Truck a leader in its field. Both models can be furnished with your choice of fork lengths 32"-36"-42"-48", and fork widths of 20 1/2" and 27", at no extra cost. Complete stock of parts available.

DIMENSIONS



BT LIFT, INC.
1520 West Ardmore
Mascia, Illinois 60143 (Area Code 312) 773-1950



MODEL BTL-2000
Standard Size
4500 lbs. Capacity

Prices
subject to change
without notice

SPECIAL BT HAND PALLET TRUCKS

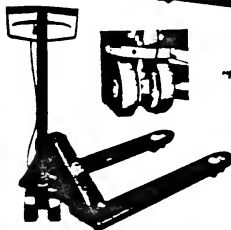
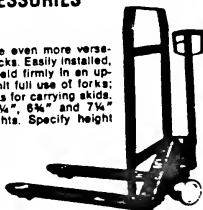
Available in:

- Galvanized truck (cold storage-brine operations)
 - 2 1/4" lowered height (used with throw-away pallets)
 - Extra long fork available (60"-72")
 - 6500 lb. capacity for extra heavy loads
 - Reel and Drum Trucks
- Consult your local dealer for prices and specifications.

OPTIONAL ACCESSORIES

SKID ADAPTER

Skid adapters provide even more versatility for BT Pallet Trucks. Easily installed, the skid adaptor is held firmly in an upright position to permit full use of forks; lowered to cover forks for carrying skids. Available in 5 1/4", 6 1/4", 6 3/4" and 7 1/4" overall lowered heights. Specify height when ordering.



"FINGER TIP"
CONTROL
HAND
BRAKE

Insure quick, efficient control when carrying capacity loads with BT's "Finger Tip" controlled automotive type internal expanding shoe brake. Control handle located conveniently within safety loop of steering handle so operator maintains full steering control while applying brake. Brake operable in any handle position and truck travel direction. Brake available with Polyurethane wheels only.

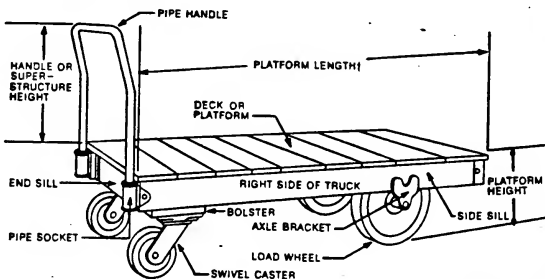
DISTRIBUTED BY:



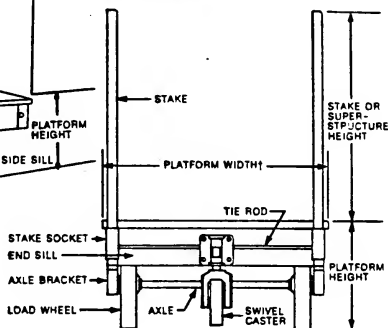
GADCO, INC.
4947 S.E. 26TH AVENUE
PORTLAND, OREGON 97202
PHONE (503) 253-0153



NOMENCLATURE



Below:
end view, stake truck.



†Platform size is always measured on the platform, exclusive of superstructure protrusions. Be sure to allow extra clearance for external pipe sockets, push handles, etc.; length or width including all protrusions is overall length or overall width.

NUMBERING SYSTEM

1. Model Number 2. Selection Suffix

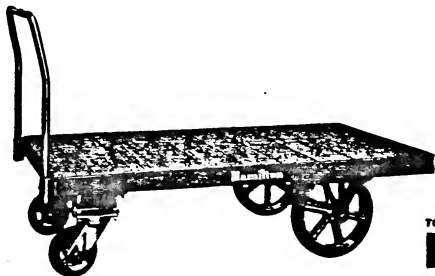
No. 800-M-M3060

Basic model or series number.

Style of superstructure; here, four wood stakes.

Type of wheels—here Metal (see page 3). Includes roller bearings if standard in specifications; otherwise additional suffix "H" is used.

Platform size (width x length) in inches—here, 30" wide x 60" long.



1018-A

□ Top-of-the-line steel & wood—rounded front corners!

... also available with Superstructure Styles G, H and J—see page 22, and with "SolidDek" in sizes 30" x 60", 36" x 60", and 36" x 72"—see pages 28 and 30.

SPECIFICATIONS

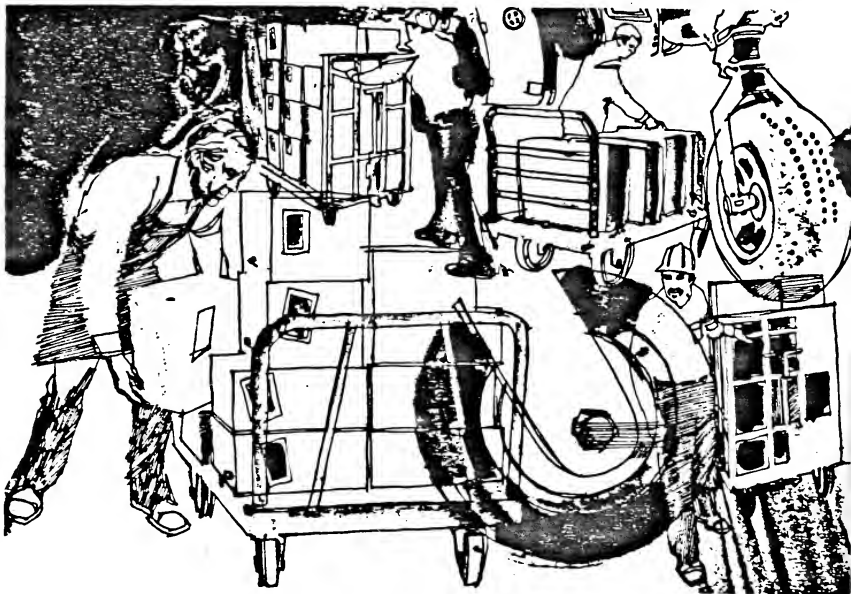
- Flush 1" oak hardwood deck in 3" x 2" x 3/16" steel angle frame with full length 3/16" angle center longitudinal.
- Load wheels 16" x 3" on 1 1/2" dia. common axle.
- Swivel casters, #S-768 with 8" x 2 1/2" wheels, bolted to structural steel cross bolsters.
- Roller bearings and pressure lubrication fittings in all wheels.
- Channel-reinforced pipe sockets with set screws.
- Platform height 17 1/2". Capacity 4000 lbs.

TO ORDER, SPECIFY MODEL NUMBER AND SELECTION SUFFIX.

SELECTION SUFFIX				Approx. Wt. Lbs.
Platform Size (in.)	Metal Wheels	Moldon Rubber Wheels	Plastex Wheels	
30 x 60	—M3060	—R3060	—P3060	290
36 x 60	—M3660	—R3660	—P3660	305
36 x 72	—M3672	—R3672	—P3672	325
36 x 84	—M3684	—R3684	—P3684	350
42 x 72	—M4272	—R4272	—P4272	380
42 x 96	—M4296	—R4296	—P4296	445



HAMILTON / PLATFORM TRUCKS



STYLES OF SUPERSTRUCTURES

For carrying certain materials, standard flat trucks are often made safer, more convenient and more efficient by changing or adding handles or racks (superstructures).

Not every platform truck listed in the following pages can be furnished in every style. See the individual pages for a listing of alternate styles available, if any, and see the price list for applicable addition or deduction of list price in each case.

When adding to superstructure, remember to allow clearance for increases in overall length or width caused by external pipe sockets, offset handles or racks, etc. Of course, styles of superstructures other than those illustrated here are also available—see page 56



Style A. One removable pipe handle
26"t high above deck



Style B. One removable pipe handle, two removable pipe stakes, 26"t high above deck.



Style C. Four removable pipe stakes 26"t high above deck



Style D. Two bolted-on steel slatted racks 28"t high above deck



Style E. One bolted-on steel slatted rack 28"t high above deck



Style F. Two removable pipe handles 26"t high above deck



Style G. Two removable pipe stakes 26"t high above deck



Style H. One removable steel slatted pipe handle 26"t high above deck.



Style I. Two removable steel slatted pipe handles 26"t high above deck.



Style J. One removable steel latticed pipe handle 26"t high above deck.



Style K. Two removable steel latticed pipe handles 26"t high above deck.



Style L. Two removable hardwood stakes 29"t high above deck.



Style M. Four removable hardwood stakes 29"t high above deck.

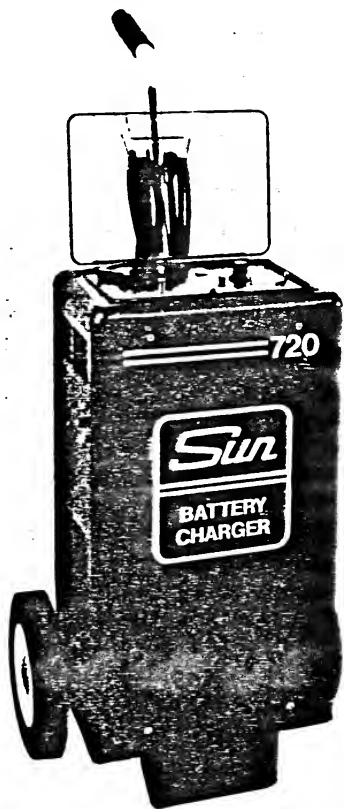


Style N. One removable pipe handle, two removable hardwood stakes 29"t high above deck.

†Certain exceptions occur on a few models, and variations of more than 1" are spelled out in individual specifications.

Sun.

INTELLIGENT BATTERY CHARGER



IBC-720
A SINGLE SETTING
DOES THE JOB

BID DESCRIPTION

The IBC-720 Intelligent Battery Charger is designed to safely charge any 6 or 12 volt automotive type battery to a fully or nearly full charged state automatically and shut itself off. Ideally suited for car, truck, tractor, farm equipment, construction equipment, and marine batteries, it features two automatic fast charge positions, "Maintenance Free" and "Conventional," a "Slow Charge" position, a "Boost Start" and a "Low Battery and Test Charge" setting. Other controls are a 6-12 volt selector switch, a Power On light, and a "Test Light" which indicates proper polarity, state of charge, and also serves as a 3 minute timer.

The charger is voltage regulated at a constant current level regardless of line voltage fluctuations, battery size or initial state of charge, making it especially suited for charging sealed batteries where state of charge cannot be determined. Charge time at each current level (40, 20 and 10 amps) is determined by battery's state of charge and internal resistance.

Mobility and ease of use is provided by heavy rubber-tired 8" wheels, a handle and a lead hanger.

SPECIFY SUN IBC-720 Intelligent Battery Charger or equivalent.

SPECIFICATIONS

Charge Rates (Approximate)

First Step	40 Amps
Second Step	20 Amps
Third Step	10 Amps
Slow Charge Position	8 Amps

Stepping Voltages

12V MF Position	— 15.7V, 15.4V, 15.1V
12V CONV. Position	— 14.6V, 14.4V, 14.0V
6V CONV. Position	— 7.2V, 7.1V, 7.0V

Test Charge — 40 Amps Rating

Test Charge Timer — 3½ to 4 min.

Boost Start — 160 Amps Maximum

Ammeter — One dc ampere meter, single scale, 0-60 amp range, graduated in 10-amp increments.

Polarity Protection — Charger inoperative unless correctly connected to battery.

Overload Protection — Two circuit breakers, primary — wait a few minutes, then press red button, secondary — wait a few minutes, then circuit breaker will automatically reset itself.

Open Circuit Protection — Charger inoperative without leads connected to a battery.

Excessive Voltage Protection — Charging voltage prevented from reaching 16 volts in Automatic Positions.

Charging Leads and Clamp — Eight-foot battery leads of heavy duty 6AWG neoprene welding cable, battery clamps of copper clad with rubber handles, red for positive and black for negative.

Current Regulation — Battery's state of charge and internal resistance determines time of charge at each charging level.

Power — 13½ foot (411 cm) power cord, all solid state requiring no cooling fan, designed for 105 to 135 volts, 60 Hz ac current.

Weight — Approximately 55 pounds (25 kg).

Size — 16"W x 18"D x 26"H (41 x 46 x 66 cm); 36½" High with handle (93 cm).

Construction — All metal housing painted with textured blue enamel, baked silver enamel, and white enamel stripes resists oil, gasoline, chipping, and scratching. Clear plastic hinged cover protects meter and controls.

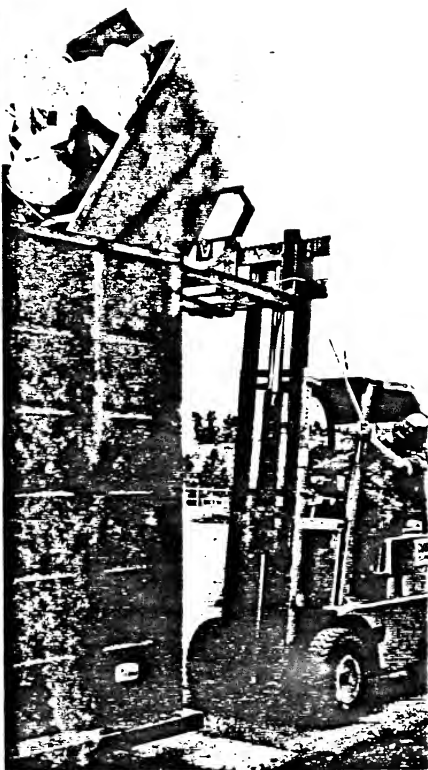
Literature — A Quick Reference Guide and an Operating Information sheet included.

Safety Precaution — Screened on Charger.

SUN ELECTRIC CORPORATION
ONE SUN PARKWAY • CRYSTAL LAKE, ILLINOIS 60014 • (815) 459-7700



Optional wheel and
caster assembly provides
increased mobility and
easy maneuvering.



Latch may be operated by rope or chain to make dumping more convenient, or tripped by a stick on ½ and 1 cu. yd. models.

Product Number	Description	Dimensions			Shipping Wt./Lbs.	Capacity Cu. Ft.	Capacity Wt./Lbs.
		L.	W.	H.			
Self-Dumping Hoppers							
1054	½ Cu. Yd. Self-Dumping Hopper	56½"	27"	40¼"	180	13.5	750
1059	1 Cu. Yd. Self-Dumping Hopper	70¾"	31½"	45¼"	239	27	1000
1064	1½ Cu. Yd. Self-Dumping Hopper	84"	42½"	49¼"	294	40.5	1000
1069	2 Cu. Yd. Self-Dumping Hopper	84"	46"	49¼"	302	54	1000
1074	2½ Cu. Yd. Self-Dumping Hopper	84"	55"	49¼"	313	67.5	1000

Add suffix—43 to order casters (4) mounted at factory.
Made of USDA-accepted materials. Complies with FDA regulations.

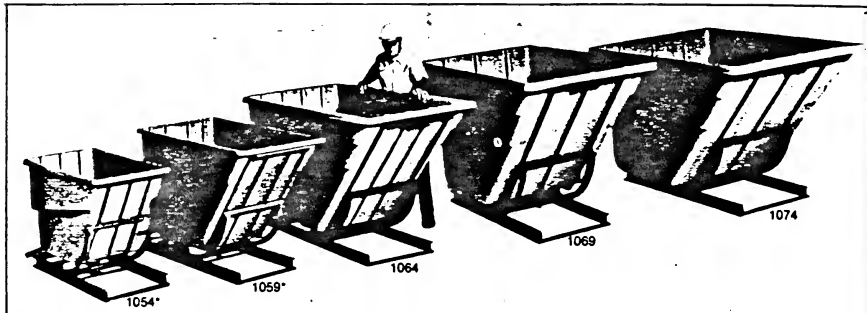
Pack: 1
Color: Gray

Optional Lids

1007	Lid for all ½ Cu. Yd. Self-Dumping Hoppers	11½
1017	Lid for all 1 Cu. Yd. Self-Dumping Hoppers	18
1027	Lid for all 1½ Cu. Yd. Self-Dumping Hoppers	34

Pack: 1
Color: Gray

Self-Dumping Hoppers



Applications:

Self-Dumping Hoppers include the features of the Tilt Truck with fork lift capabilities for elevated dumping. Typical applications:

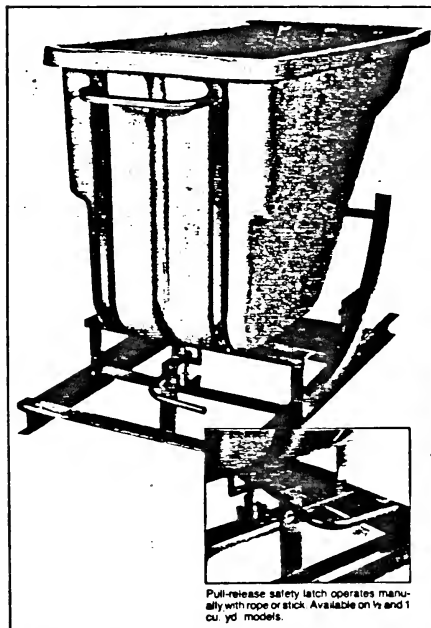
- Waste container for food processing scrap
- Dumping food ingredients into cooking or mixing vats
- Compounding chemical powders, resins, and granular materials

- Bottle and can catch in breweries and canneries
- Bulk handling of refuse

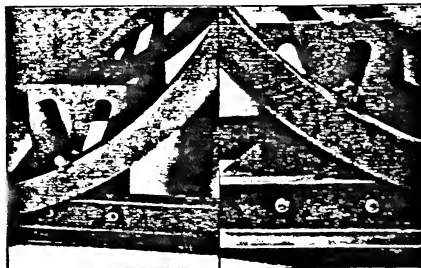
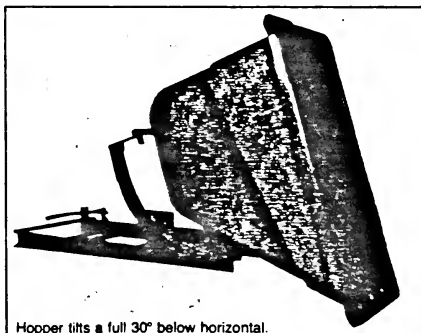
Features/Advantages/Benefits

- One piece body construction easily cleaned by high pressure water or steam
- Smooth interior will not support bacteria growth

- 1/3 as heavy as steel dumpers and easily pushed by hand with optional wheels and casters
- Polyethylene body will not rust, corrode or pit like steel
- 5 sizes: 1/2, 1, 1 1/2, 2, 2 1/2 cubic yards capacity
- Optional lids meet sanitary requirements



Polyethylene body is made of USDA-accepted materials that comply with FDA regulations.



As hopper tilts forward, the follower pin moves down, then up the V-shaped restraint guide for an even pour. Available on 1/2 and 1 cu. yd. models.

GEERPRES . HOUSEKEEPING CARTS

The **SIDE-KICK**™ cart provides economy and durability in a light-weight unit. Has many features normally found only in larger carts.



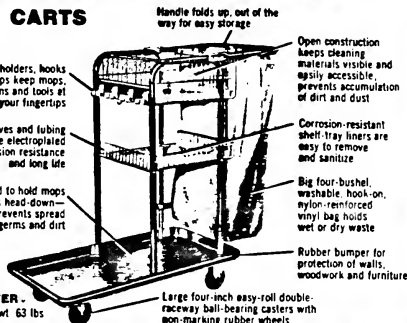
SIDE-KICK - Stock #530 shipping wt. 32 lbs

- Designed to carry mops and brooms head-down — prevents spread of germs and dirt.
- Open construction throughout keeps cleaning materials visible — won't trap dust and dirt.
- Removable corrosion-proof trays.
- Premium all-metal construction throughout.

Handy holders, hooks and loops keep mops, brooms and tools at your fingertips

Shelves and tubing are electroplated for corrosion resistance and long life

Designed to hold mops and brooms head-down — prevents spread of germs and dirt



WAGON-MASTER - Stock #640 shipping wt. 63 lbs

Handle folds up, out of the way for easy storage

Open construction keeps cleaning materials visible and easily accessible, prevents accumulation of dirt and dust

Corrosion-resistant shelf-tray liners are easy to remove and sanitize

Big four-bushel, washable, hook-on, nylon-reinforced vinyl bag holds wet or dry waste

Rubber bumper for protection of walls, woodwork and furniture

Large four-inch easy-roll double-raceway ball-bearing casters with non-marking rubber wheels

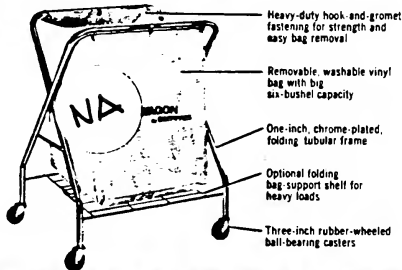
WASTE-WAGON, MOBILE REFUSE RECEPTACLE

Goes anywhere to collect up to six bushels of wet or dry refuse.



- Rolls easily on double-raceway ball-bearing casters.
- Large six-bushel capacity.
- Folds flat for storage.
- Strong, lightweight tubular construction.

Stock #610 shipping wt. 15 lbs (without shelf)
Stock #620 shipping wt. 20 lbs (with shelf)



Heavy-duty hook-and-grommet fastening for strength and easy bag removal

Removable, washable vinyl bag with big six-bushel capacity

One-inch, chrome-plated, folding tubular frame

Optional folding bag-support shelf for heavy loads

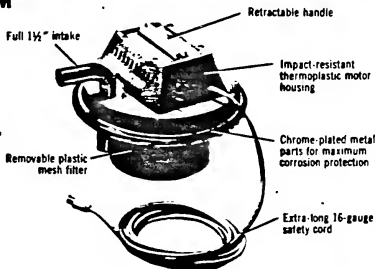
Three-inch rubber-wheeled ball-bearing casters

VAC-TOP WET/DRY VACUUM

Unique retractable handle on VAC-TOP housing fits into bale of bucket to securely lock bucket and vacuum head together.



- Turns any Geerpres 8-gallon bucket into an efficient wet or dry vacuum.
- Lightweight yet powerful — efficient two-stage by-pass 8-amp motor.
- Accepts all standard 1 1/2" O.D. hoses and tools.
- Lifts from one bucket to another in seconds for continuous wet pick-up capacity.
- Big 3/4-bushel removable cloth bag for dry pick-up.



Full 1 1/2" intake

Retractable handle

Impact-resistant thermoplastic motor housing

Chrome-plated metal parts for maximum corrosion protection

Extra-long 16-gauge safety cord

Removable plastic mesh filter



Stock #3200 shipping wt. 20 lbs



APPLIANCE HOSE

0.59

Swan® High Pressure Automatic Washer Inlet Hose



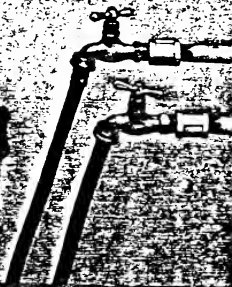
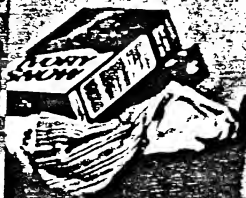
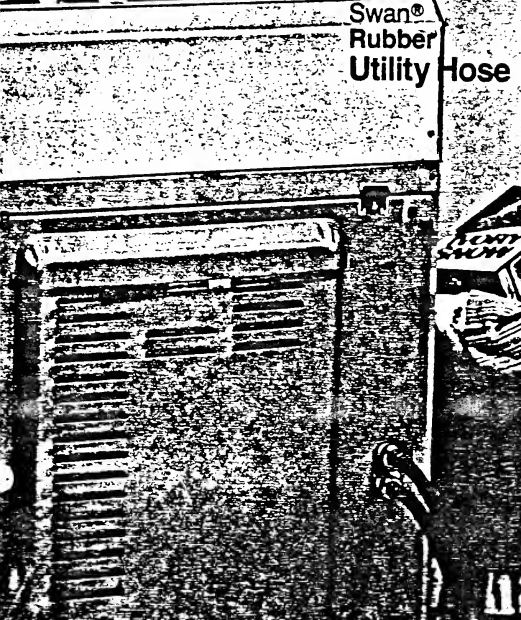
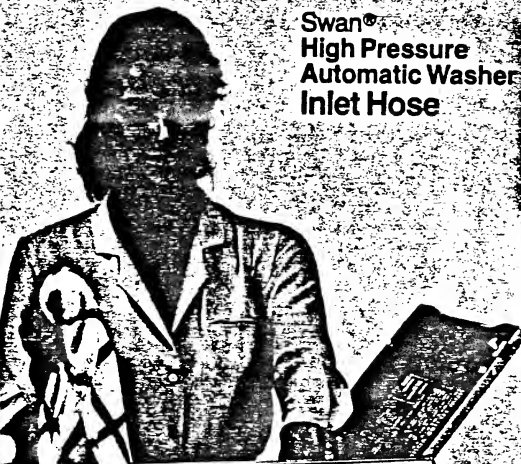
Withstands over 700 lbs. burst pressure per square inch. For both HOT and COLD water. Specially compounded to maintain strength with hottest water. Original equipment quality. Standard female solid brass couplings at both ends. Colorful packaging illustrates hook-up instructions.

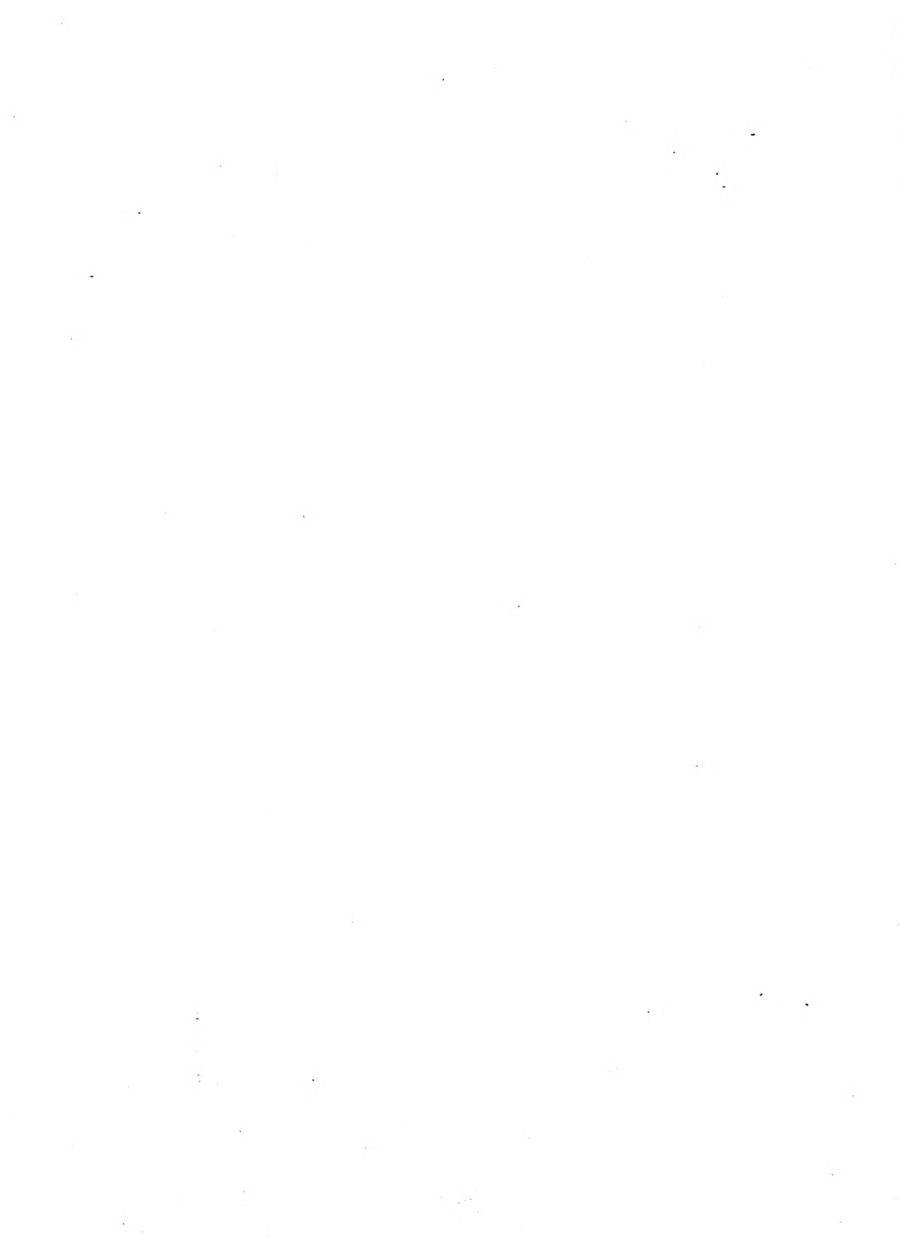
Part No.	Description		Ship Carton		
	I.D.	Length	Units	Lbs.	Cube
22182	3/4"	4'	12	9	.9
37466	3/4"	6'	12	11	.8
22202	3/4"	8'	12	14	1.3
37470	3/4"	10'	12	17	1.3

Swan® Rubber Utility Hose

A general purpose utility hose for multiple drain and filler applications around the home. Perfect for non-automatic washers. Quality reinforced rubber hose varying 4' to 8' in length with standard faucet female coupling at one end. Suitable for HOT WATER USE.

Part No.	Length	Ship Carton	
		Units	Lbs.
37592	4'-6'	20	26







CONVERTAMATIC 38 FOR FAST, ONE-PASS MAINTENANCE

The Convertamatic 38 from Advance provides a sure, fast, one-pass method of cleaning and maintaining large-area floors. Because the Convertamatic 38 cleans 2800 m² (30,000 sq. ft.) per hour, your floor's appearance is greatly enhanced within a matter of minutes, and expensive labor costs are reduced.

On only one pass the Convertamatic 38 lays solution, scrubs, and vacuums dry a clean 96 cm (38") swath. This means a savings of time and money—whenever you clean your floors.



Convert it from a scrub and wet vacuum to a buff and dry vacuum in a matter of seconds. Remove scrub brushes and squeegee, attach polish brushes, dry pick-up tool, insert filter bag in vacuum tank and you're ready to roll, Convertamatically.

Choose the type of power plant that's suited to your needs—battery, gasoline, or propane-powered.

Test the Convertamatic 38 in your building—you'll understand and appreciate the "fast one-pass maintenance" concept.



TRANSPORT DRIVE FOR ADDED POWER

Two powerful propelling systems work in perfect coordination to move the Convertamatic 38BD up any grade you're likely to find in your building. Simply ease the control bar forward and both the Transport Drive system and the Power-Flo Drive go to work. Transport Drive delivers positive power to the wheels via chain drive and automotive type differential, while the exclusive Power-Flo Drive converts brush torque into propelling power.

CONVERTAMATIC 38 SPECIFICATIONS

OPERATING SPEED: Variable speed forward and reverse, 0 to 50 m (0 to 165 ft.) per minute. Coverage under average conditions is 2800 m² (30,000 sq. ft.) per hour. **FRAME:** Mono-unit welded tubing and structured steel. **SOLUTION TANK:** 95 liter (25 gallon) capacity, easy-to-fill opening, Fiberglass construction. **RECOVERY TANK:** Fiberglass construction, 95 liter (25 gallon) capacity. Full drain dump valve for complete draining, or empty by hinged type dumping mechanism. Tank can be removed from machine for complete cleaning. **VACUUM UNIT:** 1/2 h.p. by-pass, moisture-proof continuous-duty 36 volt D.C. motor, equipped with automatic shut-off to prevent overflow. Filter bag available for dry pick-up. **SOLUTION CONTROL:** Fully variable. Solution metered equally to center of each brush. **SQUEEGEE:** One 107 cm (42") double-bladed squeegee. Pick up over entire surface. Easily interchanged with dry tool for dry vacuuming. **BRUSH SPREAD:** Two 50 cm (20") brushes clean 96 cm (38") swath. **POWER FOR BRUSHES:** 1.6 h.p. heavy-duty 36 volt permanent magnet D.C. motor. Provides stabilized speed and power throughout entire battery run. Power transmitted by Poly-V-Belt and worm gear drive. **SELF-PROPELLING POWER:** Patented Power-Flo drive propels machine forward or reverse with fully variable speed from 0 to 50 m (0 to 165 feet) per minute. **CV38 80:** **TRANSPORT DRIVE:** Delivers positive power to the wheels in addition to the self-propelling "Power-Flo" Drive. Automotive-type differential. **SAFETY BRAKE:** Standard on transport drive models only. Hand operated lever applies positive mechanical braking action to drum mounted on differential. **PRESSURE ON BRUSHES:** Variable from 67 to 412 kg (150 to 250 lbs.). **SPEED OF BRUSHES:** 102 R.P.M. **BATTERIES:** Six 6 volt 220 amp-hour, heavy-duty batteries with over-sized plates and dual insulation. Designed for deep-cycle service. Low cost, popular brand batteries used, are readily available in all cities. Maximum Battery Size 272 mm (10-5/16") long, 181 mm (7-1/8") wide, 292 mm (11-1/2") overall height. **OPERATING TIME:** Under normal operating conditions, with standard batteries machine will run up to 5 hours and will clean up to 12,500 m² (135,000 sq. ft.). **CHARGER:** 26 amp, 36 volt, fully automatic charger with charging indicator and timer. (Optional.) **DIMENSIONS:** Length, 132 cm (52"). Width, 102 cm (40"). Height, 111 cm (43 3/4"). **WEIGHT:** 38BD without batteries, net, 278.1 kg (614 lbs.); shipping, 212.1 kg (689 lbs.) With batteries, net, 449.4 kg (992 lbs.); shipping, 483.4 kg (1,067 lbs.)



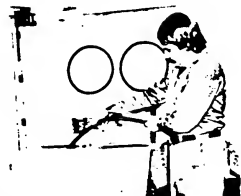
CONVENIENT BRUSH ACCESS

Brush skirts swing open from both sides allowing scrub or polish brushes to be easily changed. Skirts are detachable.



EASY TO EMPTY

Full drain dump hose with unique twist valve. 24 gallon fiberglass tank can also be tipped or removed from machine for emptying.



EASY TO FILL

Solution tank exposed by lifting hinged hood. 24 gallon capacity. Fiberglass construction prevents corrosion.



CONTROLS AT FINGER TIPS

Flight deck controls for easy operation, including fully adjustable, hand operated solution control.

AUTHORIZED ADVANCE DISTRIBUTOR

The Advance Machine Company

We build cleaning machines that are all business
ADVANCE MACHINE COMPANY, Spring Park, Minnesota 55389
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0-61



hi-
rpm

matador



**A new concept
in high-speed
floor machine design.
Now in a 17" and 20" size.**

The high-r.p.m. Matador 17 and 20 have been specifically designed for spray cleaning. Turning at 300 and 285 r.p.m. respectively, they will bring a floor up to a deep, lustrous sheen in half the number of passes it would take with an ordinary speed machine.

The high-r.p.m. Matador represents an engineering breakthrough in high-speed design. Here, for the first time, is a heavy-duty, high-speed machine that will operate on standard circuits. Both models are rectified direct-current (DC) motors that develop much greater starting torque, yet draw considerably less amps than AC motors used in other high-speed machines.

Only the man that operates a floor machine several hours a day can appreciate all the features built into a Matador . . . precision balance for ease of operation . . . fingertip handle positioner . . . comfortable twist-grip starting . . . a safety switch that prevents the machine from starting unless the handle is in the operating position . . . reach-under front housing . . . and a big bumper to protect furniture and woodwork.

Test a high-r.p.m. Matador against any other high-speed machine. Then compare price. Why pay more? Ask your Advance distributor for a no-cost, no-obligation demonstration in your own building.

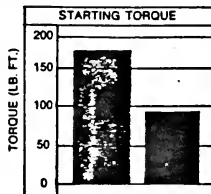


Performance features you will find only on the

hi-
rpm

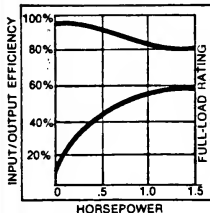
matador

Rectified 1½ h.p. D.C. motor provides high torque without excessive amp draw. Most high-speed machines have capacitor-start/capacitor-run A.C. motors. Starting current for these motors is four to five times running current. The D.C. motor, with a rectifier that converts 115 volt, 60 cycle alternating current to direct current, draws only twice the running current for starting and has much higher starting torque.



— RECTIFIED D.C. MOTOR

— CAPACITOR-START/CAPACITOR-RUN A.C. MOTOR



One-third greater efficiency. The permanent magnet D.C. motor used in the Matador-20 has 33% greater input/output efficiency than an induction-run motor. This means that the D.C. motor will do one-third more work at a given amperage than an A.C. motor. Or, if the work load is equal, the D.C. motor will draw one-third less current.

Safety Switch. Eliminates accidents. Prevents motor from being started when handle is in the upright position. Switch will operate only when handle is in operating position.

Optional Spray Attachment. Mounts to machine base with thumb-activated lever on handle. Holds aerosol can of "Hi-RPM", a special cleaner/finish formulated for spray cleaning with high-speed machines.

Fingertip Handle Positioner/Twist Grip Start. Handle Positioner lever fingertip reach adjusts handle to a position. Comfortable twist-grip starting lever eliminates hand and wrist fatigue.

SPECIFICATIONS

MATADOR 17

General Construction: Cast aluminum alloy, malleable iron, and steel throughout.

Switch: Snap-acting switch activated by twisting handgrips. Safety switch breaks circuit so that machine cannot be started in transport position.

Handle: Tapered pentagonal shape for greater strength. Fully adjustable to vertical position. Hand-operated handle positioner.

Cable: 15M (50'), heavy-duty with grounding-type plug. 16/3.

Wheels: Heavy-duty, 12.7 cm (5") fixed, transport wheels.

Motor: 1½ h.p. Rectified D.C. permanent magnet low amp draw motor. Converts 115V, 60 cycle A.C. to direct current.

Transmission: Power-Flex grease-free drive. Automotive type tapered roller bearings used throughout. All lubrication points sealed for life.

Machine Weight: (With pad holder) 38.5 kg (85 lbs.) net. 44 kg (97 lbs.) shipping.

MATADOR 20

General Construction: Cast aluminum alloy, malleable iron, and steel throughout.

Switch: Snap-acting switch activated by twisting handgrips. Safety switch breaks circuit so that machine cannot be started in transport position.

Handle: Tapered pentagonal shape for greater strength. Fully adjustable to vertical position. Hand-operated handle positioner.

Cable: 15M (50'), heavy-duty with grounding-type plug. 14/3.

Wheels: Heavy-duty, 12.7 cm (5") fixed, transport wheels.

Motor: 1½ h.p. Rectified D.C. permanent magnet low amp draw motor. Converts 115V, 60 cycle A.C. to direct current.

Transmission: Power-Flex grease-free drive. Automotive type tapered roller bearings used throughout. All lubrication points sealed for life.

Machine Weight: (With pad holder) 50.3 kg (111 lbs.) net. 55.8 kg (123 lbs.) shipping.

AUTHORIZED ADVANCE DEALER

The  Advance Machine Company

We build cleaning machines that are all business

ADVANCE MACHINE COMPANY, Spring Park, Minnesota 55364

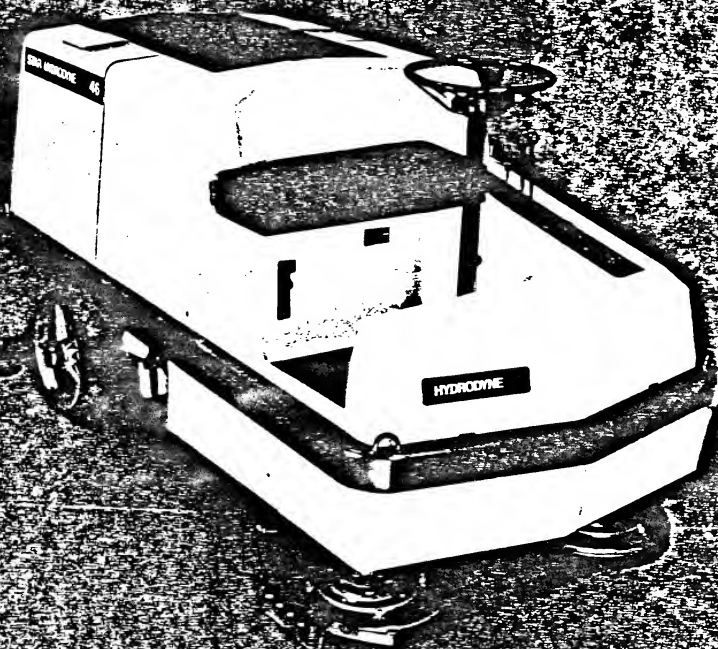
ADVANCE MACHINE COMPANY, CANADA, LTD., 45 Van Street, Toronto, Ontario Canada

ADVANCE INTERNATIONAL, INC., Parc 60, L'Ange, Luxembourg



Industries, Inc.

06



Workhorse stamina with gas or electric power

Exceptional scrub efficiency in our most versatile machine size. The Star Hydrodyne 46 combines aisle-width configuration with high production capacity . . . Ideal for warehousing, processing plant and institutional maintenance. Equipped with a twin turbine vacuum system, the Star Hydrodyne 46 cleans easily and completely in one pass. Solution is dispensed, scrubbed and recovered as machine travels leaving a dry surface behind; and like all Star Hydrodyne scrubbers, the 46 features a full hydraulic power system. Each machine function is controlled independently permitting an infinite variation of cleaning action.

Plus these standard Star Hydrodyne features:

- Heavy wall fibre glass body. Fully welded steel frame.
- All hydraulic power system.
- Automatic brush speed/pressure control.
- Better than 90° turning ability.
- Hydraulic drive control.
- Dual squeegees and double turbine vacuum system.
- Corrosion and caustic resistant fibre glass tanks.
- Up front visibility.
- Fingertip control console.

Special polypropylene litter skirt surrounds rear brush to pick up floor debris as machine travels. Litter bin is easily removed for emptying.

A stroke of convenience. Engine, battery and accessories are mounted in a unique power-pak chassis. Lifts out completely for service. Includes oil cooler system to keep hydraulic operating temperature at proper levels.



Power Source: Gas engine power pak or 36 volt, 660 ampere battery supplying single continuous duty DC electric motor drive to hydraulic pump. Standard Anderson SB175 coupler to motor and battery.

Scrub Brushes: Three 17 inch diameter flat-to-floor segmented brushes. 535.485 square inches of brush surface. Polypropylene litter skirt surrounds rear brush.

Tanks: Heat and chemical resistant fibre glass.

63 gallon solution

63 gallon recovery

Vacuum Turbines: Two 2 stage; 45 inch water lift.

Squeegee: Full floating dual rear; gum rubber wiper with neoprene backing; roller bumpers.

Side Squeegee: Manual control independent of rear squeegee and scrub head.

Controls: Separate controls for brushes and squeegees; variable flow solution control. Foot pedal controls forward and reverse. Automatic squeegee lift when machine is in reverse. Automatic turbine cut-off switch on recovery tank. Turbines automatically activate when lowering squeegees.

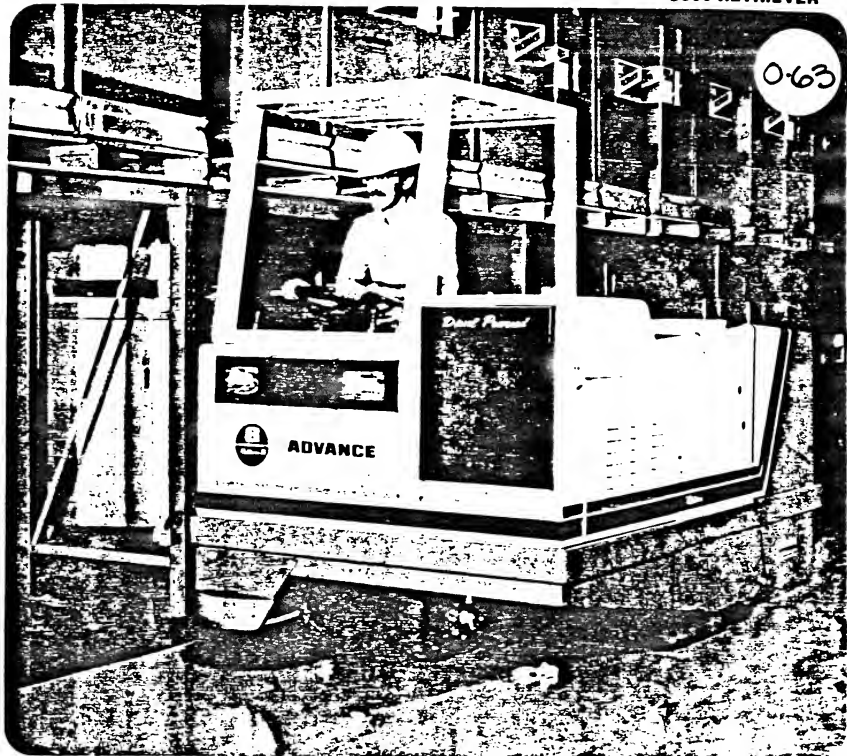
Brakes: Foot pedal actuated. Hand locked for parking.

Wheels: FRONT: 3.5 x 16 OD special formula, traction designs. REAR: 3.50 x 16 OD solid rubber.

Weight: 1,800 pounds (without battery). 1850 pounds (engine powered).



Specifications



Liquid Cooled, Gas or Diesel Powered RETRIEVER 5600 Sweeper

Here's a machine that can do the work of an entire cleaning crew. And save enough in payroll costs to quickly pay for itself.

The Retriever cleans a 142 cm (56") path and sweeps up to 13,800 m² (150,000 square feet) per hour.

But that's only part of the labor-saving story. Most sweepers don't know what to do with the dirt once they've picked it up. So they dump it right back onto the floor. Which can only mean hand-shoveling a half ton of debris. That's not the case with the Retriever. When it's collected a hopperful of trash, a touch of a lever

hydraulically lifts the load as high as 1.5 m (60") for easy one-step dumping into a standard industrial trash bin.

The Retriever saves time. It won't let you waste valuable manpower.

Choose the gas or the diesel engine. Either way you've got a sweeper powerful enough to tackle steep parking ramps with out a performance loss.

But the best way to find out what the 5600 can do is to test it under your own conditions. Without any obligation. Why not arrange a convenient time with your Advance distributor today?



Retriever 5600 features:



One-Step Dumping — Just lift the 5600 Retriever up to the next trash receptacle, push a button and the hopper hydraulically dumps 15 cubic feet (426 kg) of debris.



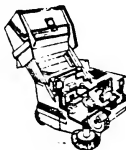
Engine — 4-cylinder, liquid-cooled Ford industrial engine, 47.5 h.p., at 3,600 r.p.m. 36 liter (10 gallon) fuel tank ample for 8 hour shift. 21.4 h.p. Onan diesel available.



Filter System — 166 individual filter cartridges assure maximum dust control. Continuous self-cleaning action, plus electric vibrator for severe dust conditions.



Main Broom — Tubular, one piece disposable broom. Broom wrap adjusts automatically to compensate for broom float and wear. Complete replacement in 5 minutes or less.



Hydraulic Drive —

Hydraulic pump supplies power to direct drive motor on front wheel, main broom, side broom and hopper lift cylinders.

SPECIFICATIONS

General Information

Main Broom Width	112 cm (44")
Sweeping Path	142 cm (56")
Sweeping Speed	0 - 9.6 km/hr (0 to 6 MPH)
Transport Speed	Up to 16 km/hr (10 MPH)
Turning Radius	2.16 m (85")

Dimensions

Length	252.7 cm (99.5")
Width	153.7 cm (60.5")
Height	132.1 cm (52")
Overhead Guard	200.7 cm (79")

Weight

Net	1308.6 kg (2885 lbs.)
Shipping	1474.2 kg (3250 lbs.)

Gas Engine

Type	4-Cylinder, in-line Ford engine
Bore/Stroke	8.1 cm x 7.9 cm (3.2 x 3.1 ins.)
Displacement	1605 cm ³ (98 CID)
Compression Ratio	8:1
Cooling System	Belt-driven impeller pump
Water Pump Delivery	75.7-94.6 liters (20-25 gallons per minute)
Heat to Coolant	1740 BTU/MIN at 5000 r.p.m.
Oil Capacity	3.8 liters (4 qts.)

Diesel Engine

Type	Overhead valve 4-cycle, 2 cylinder
Bore/Stroke	8.9 cm x 9.2 cm (3.5 x 3.6 ins.)
Displacement	1147 cm ³ (70 CID)
Compression Ratio	19:1
Cooling System	Liquid cooled
Water Pump Delivery	90.8 liters/min (24 gpm)
Heat to Coolant	0.88 MJ/MIN (835 BTU/MIN)
Oil Capacity	3.3 liters (3.5 qts.)

Drives: Hydraulic drive system provides infinitely variable propelling speeds from 0-16 km/hr (0-10 MPH).

Side Broom: Variable speeds with hydraulic drive.

Main Broom: Hydraulic drive at constant speed.

Broom Compartment: Broom completely enclosed in heavy sheet steel, rigidly braced and effectively sealed against dust leakage. Foot actuated flap across front of broom chamber opens to allow bulky litter to enter broom compartment. Patented floating broom wrap adjusts to broom float and broom wear, maintaining proper broom relationship with the debris hopper.

Side Broom: Rotary, disposable type, 81 cm (24") diameter from outer bristle ends. Broom is hydraulically driven and may be raised and lowered from operator's position.

Filter Area and Vacuum Control: Enclosed type filter system includes multiple dust filter, 166 tubular cartridges, hanging free and clear of each other to allow total air circulation around all cartridges. Cleaning action is provided by a shaker motor, actuated from the operator's position, when necessary, in severe dust conditions. High volume 25.4 cm (10") fan provides dust control for broom compartment.

Debris Hopper: 425 liter (15 cu. ft.) hopper holds over one-half ton (460 kg) of debris and is four-sided to retain all dirt and litter deposited in it. The hopper is lifted hydraulically to 152 cm (60") and dumped directly into a trash receptacle.

Steering: Automotive type, recirculating ball with single front wheel steering.

Controls: One foot pedal controls rate of travel, directs instant forward and reverse motion and also effects braking in either direction of travel. Key switch and starter activates engine. Two brake controls. Foot pedal operates hydraulic brakes on rear wheels. Hand lever for parking. Hand levers raise and lower brooms. Hydraulic controls turn brooms and fan on and off and lift broom. Foot pedal opens flap allowing bulky objects to enter broom compartment.

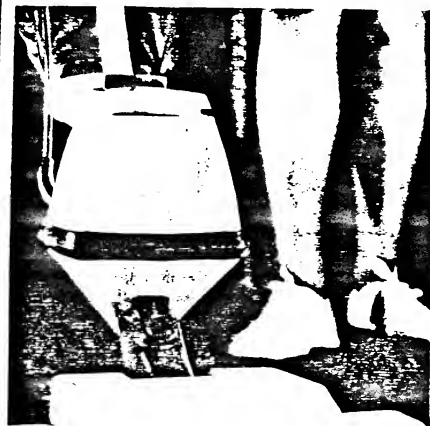
Tires: 36 cm x 4 cm (14" x 5.5") semi-pneumatic. Two-rear, one-front.

Standard Equipment: Lights, horn, engine hour meter, brake, main broom, side broom, flashing amber light, fuel gauge, ammeter, water temperature gauge, oil pressure gauge, overhead guard.

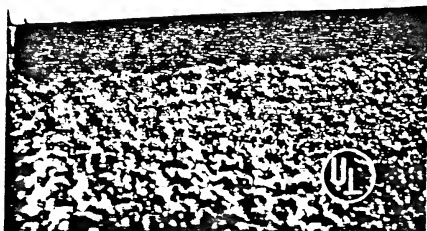
All specifications subject to change without notice.

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CANADA, 45 Iron Street - Windsor - Ontario





Mighty Maid



Use it as a carpet vac.



Use it as an upright vac.



Use it as a portable vac.



Use it as a stair vac.



Use it as a hard floor vac.

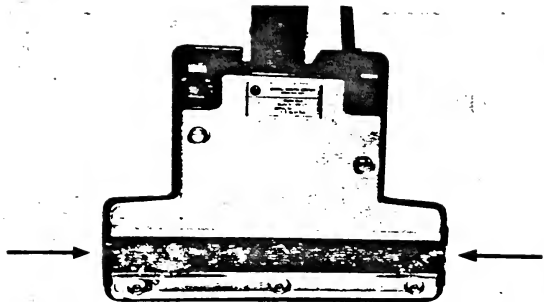
Mighty Maid

Multi-Purpose Commercial Vacuum

A two-motor commercial vacuum doesn't have to be heavy to be heavy-duty. The Mighty Maid weighs only 12 pounds yet has as much power as vacuums that weigh three times as much.

The Mighty Maid has one motor to power the rotating brush that roots out imbedded sand and grit. A second motor drives the powerful vacuum.

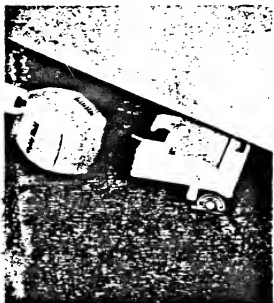
Unlike household vacs that are designed to be used in the home only an hour or so a week, the Mighty Maid is built to take hours of daily service in hotels, restaurants and offices.



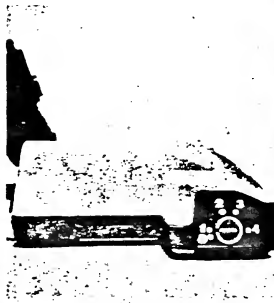
Cleans right up to the edge on both sides of the power brush tool. The power brush tool for carpeting cleans a 12" swath. The bristles on the rotary brush extend to the very end of the tool for thorough cleaning right up against baseboards and furniture. Spiral-to-center bristles pull dirt into the powerful air stream.



Cleans right up to baseboards. Most vacuums can't clean closer than an inch from a baseboard. With the extended bristles on each end, the Mighty Maid cleans away accumulated dirt that other vacs leave behind.



Swivel handle to reach under furniture. A twist of the handle and the motor unit turns on its side to provide a low profile for reaching under furniture.



Four-position brush adjustment. The bristles on the brush roller can be simply adjusted for wear by the turn of a dial on the end of the tool.



Use short handle for upholstery and stairs. The short handle, included as standard, converts the Mighty Maid into a portable, hand-held vacuum for upholstery and stairs.

OPTIONAL ACCESSORY KIT



Hose



Crevice Tool



Shoulder Strap



Dusting Tool



Upholstery Tool



Bristle Tool for Hard Floors

STANDARD EQUIPMENT

Vacuum power head, brush drive carpet cleaning attachment, cloth filter bag, six paper collector/filter bags, two-piece long handle, and short handle.

Vacuum power head is equipped with $\frac{3}{4}$ h.p. motor. Brush drive tool is powered by $\frac{1}{4}$ h.p. motor. Cleaning width of power brush tool is 12" with edge-cleaning on both ends.



E29232

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We build cleaning machines that are all business.
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ADVANCE INTERNATIONAL, INC., Paris de la Savoye, Luxembourg

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Bob Nagel Dist.
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O-64



CARPETWIN Commercial Duty Vacuum

Household vacuum cleaners are built to be used an hour or so a week in the home. They're not designed for hours of daily commercial use.

That's a job for a powerful, heavy-duty vacuum. A vacuum like the Advance CarpeTwin. Heavy-duty doesn't mean heavy weight. The CarpeTwin is the lightest commercial-rated, two-motor vac you can buy. Big ball-bearing wheels and self-propelling action help make it easy to use.

And powerful doesn't mean noisy. The CarpeTwin is quiet enough for hospitals. Quieter than household vacs. Quieter than OSHA requires.

The CarpeTwin has two motors. One drives the ball-bearing-mounted beater brush. Not from the

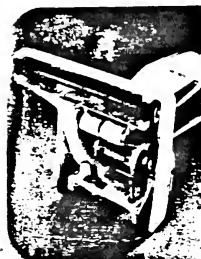
middle like a household vac, but from the end, so there's no streaking. And the brush drive is an industrial poly V-belt, not a rubber band type.

A second motor drives a powerful enclosed vacuum. There's no exposed bag. No blowing dust. No odor. Dirt is pulled out of the carpet, up a tube, and dropped into the top of the bag. Household vacs blow dirt up from the bottom through dirt already in the bag, robbing the vacuum of power.

It's little wonder the CarpeTwin provides years of trouble-free service. Whether you choose the 16" or 20" model.

Why not get together with your Advance distributor today.

CARPETWIN FEATURES:



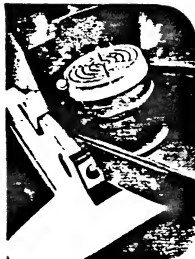
Heavy-duty motor drives the beater brush. The drive to the brush is an industrial poly V-belt. Not a rubber belt as used in household vacs. The brush cylinder rolls on ball bearings. Lubricated and sealed for life.



Brush penetration can be adjusted for any type of carpeting including shag. Adjustment knob is conveniently located and recessed into the side of the base housing for protection.



The Carpetwin pulls dirt up a large diameter tube and deposits it in the top of the collector bag. Peak vacuum performance is maintained until the bag is full.



There's no danger of damage to the motor even if the vac picks up a nail or other metal object. A secondary filter prevents dust and small particles from entering the motor.

SPECIFICATIONS

PERFORMANCE DATA	CARPETWIN-16	CARPETWIN-20
CLEANING WIDTH	40 cm (16")	60 cm (20")
VACUUM MOTOR	1 HP, 115 or 230V, 50/60 cycle AC, 1000 hour brush life. Waterth 200 cm (80")	1 HP, 115 or 230V, 50/60 cycle AC, 1000 hour brush life. Waterth 200 cm (80")
VACUUM MOTOR AIR FILTER	Fits over motor to protect from lint and dirt particles.	Fits over motor to protect from lint and dirt particles.
COLLECTOR BAG	Fully enclosed. Cloth standard. Paper optional. Capacity 9 liters (1/4 bu.).	Fully enclosed. Cloth standard. Paper optional. Capacity 9 liters (1/4 bu.).
VACUUM ORIFICE	51 mm (2") Wide oval orifice allows large objects to enter bag.	51 mm (2") Wide oval orifice allows large objects to enter bag.
UPPER HOUSING	High impact-resistant Royalite ABS	High impact-resistant Royalite ABS
AIR EXHAUST	Final polyurethane filter traps micro particles. Diffuser gently exhausts air to sides.	Final polyurethane filter traps micro particles. Diffuser gently exhausts air to sides.
TURBULATOR BRUSH	Ball-bearing mounted. Poly-V and driven. Adjustable.	Ball-bearing mounted. Poly-V and driven. Adjustable.
TURBULATOR BRUSH MOTOR	1/4 HP. Induction type. Rated for indefinite usage. No carbon brushes.	1/4 HP. Induction type. Rated for indefinite usage. No carbon brushes.
OVERLOAD PROTECTION	Automatically shuts-off motor if brush is stopped by obstruction.	Automatically shuts-off motor if brush is stopped by obstruction.
BRUSH ADJUSTMENT	Recessed knob. Adjusts brush penetration for different pile lengths.	Recessed knob. Adjusts brush penetration for different pile lengths.
LOWER BASE HOUSING	Injection-molded, high-impact ABS. Serves as its own built-in bumper. Low, reach-under profile.	Welded steel frame with Royalite ABS cover.
WHEELS	103 mm (4") ball-bearing mounted. Heavy-duty. Non-marking.	103 mm (4") ball-bearing mounted. Heavy-duty. Non-marking.
ROLLERS	Wide nylon rollers in base for maximum maneuverability.	Wide nylon rollers in base for maximum maneuverability.
HANDLE	Three positions. Upright for storage. Normal operating and low position for vacuuming under furniture.	Three positions. Upright for storage. Normal operating and low position for vacuuming under furniture.
TURBULATOR BRUSH ON-OFF SWITCH	Brush automatically turns on when handle lowered to operating position. Off when in upright position.	Brush automatically turns on when handle lowered to operating position. Off when in upright position.
VACUUM ON/OFF SWITCH	Rocker switch on handle grip. 15 amp rating.	Rocker switch on handle grip. 15 amp rating.
CABLE	12 m (40 ft). No. 16-3.	12 m (40 ft). No. 16-3.
HEIGHT	118 cm (46 1/2")	122 cm (48")
WIDTH	47 cm (18 1/4")	66 cm (22 1/4")
LENGTH	43 cm (17")	46 cm (18 1/4")
NET WEIGHT	16.8 kg (37 lbs)	25.4 kg (56 lbs)
SHIPPING WEIGHT	21.3 kg (47 lbs)	29.9 kg (66 lbs)

Specifications subject to change without notice.

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 EUROPE, 4 Rue Jean Erigoy, Dornach, Switzerland
 GABRIOLA, 46 Iron Street, Rosedale, Ontario





The CarpeTron... Highly Maneuverable, Easy To Operate!

The CarpeTron is designed for dry-foam shampooing of carpeted areas. Using dry foam reduces drying time from several hours to less than one hour. Dry foam also eliminates the danger of saturation and removes the need for a skilled operator. The CarpeTron's cylindrical brush separates the carpet fibers and combs the foam through them, cleaning each fiber individually.

This easygoing, stylish Carpetron, which cleans a 35cm (14"), 45cm (18"), or 70cm (28") path (depending on the model you choose), has some remarkable features. The streamlined styling suggests a class of its own—far beyond its competitors. The convenient handle arrangement increases

its maneuverability. The air compressor is located near the base of the motor, adding even more balance and maneuverability.

All Carpetron models are self-propelled—the 45 and 70cm (18" and 28") models both forward and reverse; the 35cm (14") model forward only. Simply twist the hand grips and follow along. The foam flow is controlled by a switch just below the hand grips.

When the job is finished, the easygoing Carpetron leaves your carpets looking like new. It's so easygoing, in fact, that anyone can produce professional results safely, confidently. For more information about the CarpeTron, ask your Advance Distributor for a demonstration in your building today.



Here's Why The CarpeTron Is A Cinch To Operate:



Foam Switch

The foam control switch is located just below the hand grips. Hold in the up position for momentary foam flow; set in the down position for continued foam flow; flick to the middle position for "off".



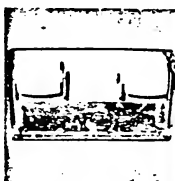
Foamatic Attachment

Available for CarpeTron 18 and 28. Ideal for dry-foam shampooing of carpet edging, stair runners, and small carpeted areas. Attaches to fitting located at top of solution tank housing.



Easy to Fill

Sturdy polyethylene, 13 liter 3 1/2 gallon solution tank fills fast and easy. No more spilling or dripping, thanks to the patented funnel. Easy-to-read gauge at rear shows how much solution is in tank.



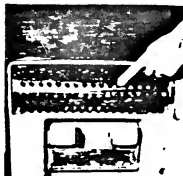
Wide Rollers

Wide, nylon rollers, positioned at the front/center of the CarpeTron's base, make it easier to move the machine over thick, shag carpeting.



Self-Propelled

A simple twist of the wrist, and the CarpeTron 14 is self-propelled forward. The 18 and 28 propel both forward and reverse.



Cylindrical Brush

Cylindrical brush gently combs and cleans each fiber individually. Nylon bristles.



Brush Adjustment

This adjustment knob allows the operator to dial in the exact amount of brush pressure that he needs for his specific type of carpeting.



Arid Foam Plus

The only shampoo specially formulated for use in the CarpeTron. Contains only 6% moisture. Safe and fast drying. Ingredients combine to effectively remove both water and petroleum soluble soils.

FOAMATIC ATTACHMENT SPECIFICATIONS

- Brush Size 127mm (5") diameter. Nylon bristles.
- Foam Delivery Hose: 12.7mm (1/2") inside diameter. Flexible. Clear plastic. 4.6m (15') long. Delivers foam to center of brush.
- Brush Switch: Thumb-operated on/off switch.
- Foam Control Valve: All brass, momentary control.

CARPETRON 14, 18, 28 SPECIFICATIONS

Brush Drive Motor: 14" model: 1/4 h.p. heavy duty motor, 18" and 28" models: 3/4 h.p. capacitor motor.
Air Supply System: Factory pre-set compressor powered by separate motor.
Self-Propelled: Rotation of cylindrical brush propels machine.
Brush and Motor Base: Aluminum construction with Royalite hood.
2-Position Handle: Storage and operating position. Brush raises from carpet when handle is in vertical storage position.
Solution Tank: 13 liter (3 1/2 gallon) capacity. Cross-link polyethylene construction.
Foam Control Switch: 3 positions — (1) momentary Bow, (2) continuous flow, (3) off.

Front Rollers: 54mm (2 1/8") wide. Fully adjustable for varying brush penetration into carpet pile.

Rear Wheels: 127mm 5" diameter. Non-marking, rubber.
Cable: 40 ft. #18-3.

	14"	18"	28"
Weight:	39.9 kg (88 lbs.)	45.3 kg (100 lbs.)	58.9 kg (130 lbs.)
Shipping	45.3 kg (100 lbs.)	60.7 kg (112 lbs.)	64.3 kg (142 lbs.)
Height:	106.7cm (42")	108.7cm (42")	106.7cm (42")
Width:	45.7cm (18")	55.9cm (22")	78.7cm (31")
Length:	58.4cm (23")	58.4cm (23")	58.4cm (23")

BRUCE WALTER

Bob Nagel Dist.

210 S.E. 7th

PORTLAND, OREGON 97211

233-5531

The  Advance Machine Company

We build cleaning machines that are all business.

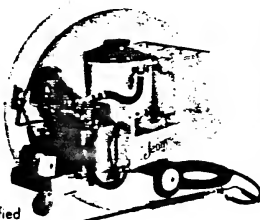
ADVANCE MACHINE COMPANY, Spring Park, Minnesota 55841

ADVANCE MACHINE COMPANY CANADA, LTD. 4100 Steeles Avenue, Ontario, Canada

ADVANCE INTERNATIONAL, INC., Paris de la Tourne, Luxembourg

JENNY SUPER 200-C

Jenny Super 200-C two-way cleaning has a penetrating 72 gph vapor spray to melt and emulsify grease and oil on contact. Its powerful 140 gph, 600 psi pressure wash spray lifts and floats away caked dirt and grime like a "hydraulic chisel." And no matter what the output, the pump speed remains the same—a slow 300 rpm. A full-cover is optional.



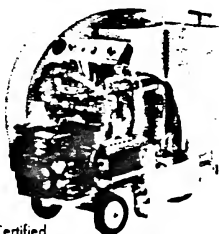
Certified

PUMP OUTPUT—Steam Cleaner	72 gph
PUMP OUTPUT—Pressure Washer	140 gph
WASH PRESSURE	600 psi
PUMP TYPE	duplex piston
PUMP SPEED	300 rpm
CHECK VALVES	non-corrosive disc type
SOLUTION TANK	6 gallons
FUEL TANK	8 gallons
BURNER JET SIZE	2 1/4 gph
CLEANING HOSE	1/2" ID x 25'
CLEANING GUN	insulated, 1/4" x 40"
DIMENSIONS	60" L x 27" W x 33" H
WEIGHTS	252 lbs. net, 302 lbs. crated

(Complete specifications on Form No. 02-70-2)

JENNY 760-C

Jenny Series 760-C Combination Steam Cleaner/Pressure Washer has the same efficiency—same dependability—as the 760 Steam Cleaner, but with an added 180 gph 600 psi wash spray. Because of its size and versatility Jenny 760-C can be used in industrial maintenance shops, car dealer reconditioning and de-waxing departments, fleets, implement repair shops, garages, food and meat processing plants. Gasoline engine driven model shown.



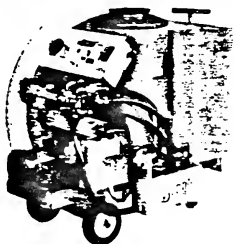
Certified

PUMP OUTPUT—Steam Cleaner	100 gph
PUMP OUTPUT—Pressure Washer	180 gph
WASH PRESSURE	600 psi
PUMP TYPE	duplex piston
PUMP SPEED	260 rpm
CHECK VALVES	non-corrosive disc type
SOLUTION TANK	12 gallons
FUEL TANK	12 gallons
BURNER JET SIZE	2 1/4 gph
CLEANING HOSE	1/2" ID x 25'
CLEANING GUN	swivel, insulated, 1/4" x 48"
DIMENSIONS	47" L x 27" W x 41" H
WEIGHTS	395 lbs. net, 445 lbs. crated

(Complete specifications on Form 02-70-4)

JENNY 1000-C

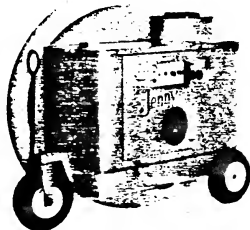
The Jenny 1000-C combination Steam Cleaner/Pressure Washer is efficiency and versatility in a compact design. For those cleaning jobs which require a high impact vapor spray to melt and emulsify grease and grime it's 325° F; 350 psi cleaning spray is up to handling the job. Should pressure washing be needed to wash away dirt and oil, the 1000-C's 240 gph at 1200 psi pressure wash action is powerful enough to perform those tasks in record time.



PUMP OUTPUT (Steam Cleaner)	130 gph @ 350 psi, up to 325° F
PUMP OUTPUT (Pressure Washer)	240 gph
WASH PRESSURE AND TEMPERATURE	1200 psi, up to 200° F
PUMP TYPE	triplex piston
PUMP SPEED	1025
CHECK VALVES	non-corrosive disc type
SOLUTION TANK	12 gallons
FUEL TANK	12 gallons
BURNER JET SIZE	2.5
CLEANING HOSE	1/2" x 60'
DIMENSIONS	47" L x 27" W x 41" H
WEIGHT	395 lbs. net, 445 lbs. crated

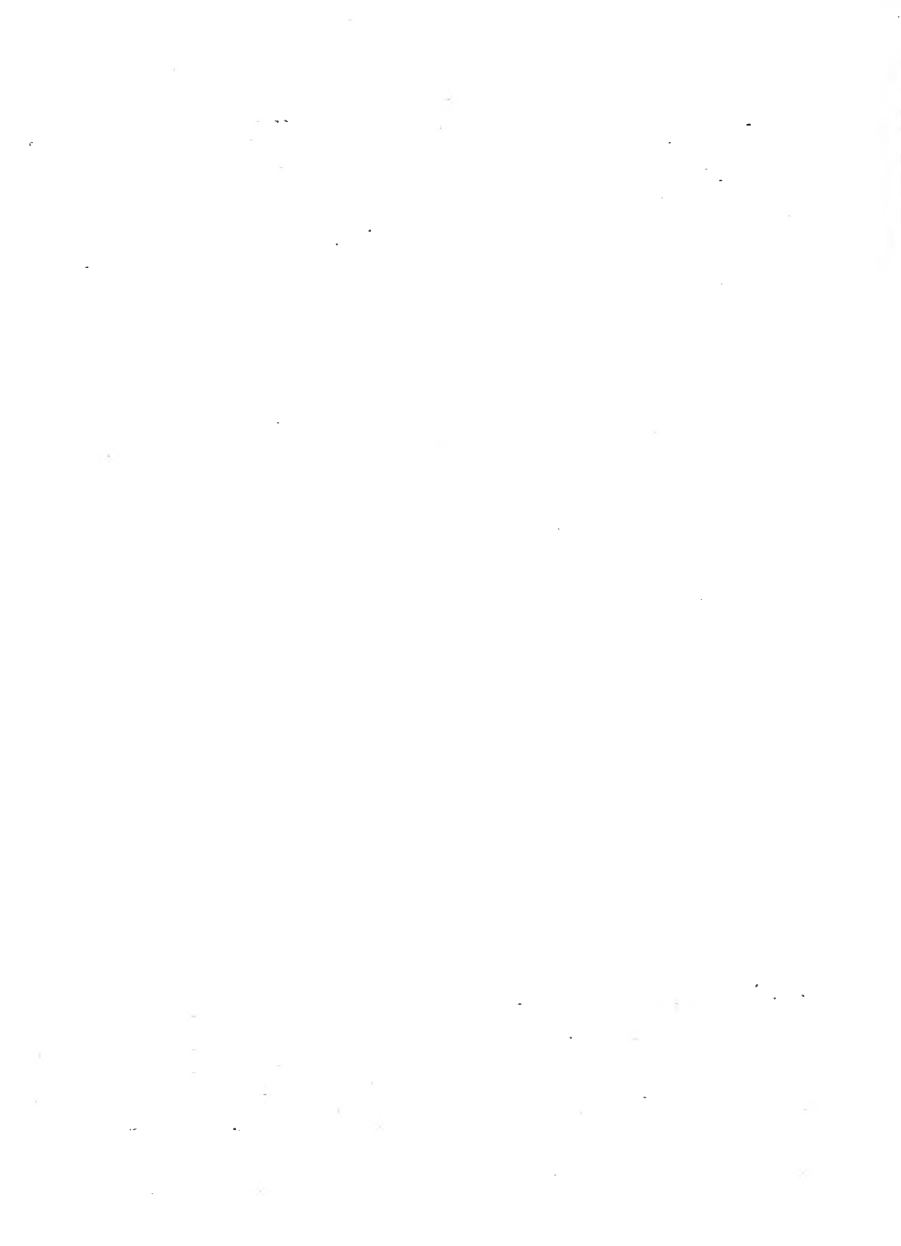
JENNY 1600-C

Jenny Series 1600-C Combination Steam Cleaner/Pressure Washer takes up where Jenny 1560 leaves off. In addition to its 150 plus gph high-impact vapor, it also produces a powerful 300 gph pressure spray for washing or rinsing. Thick, heavy dirt and grease on trucks, trailers, construction equipment and machinery are no match for Jenny Series 1600-C.



PUMP OUTPUT—Steam Cleaner	150 gph
PUMP OUTPUT—Pressure Washer	300 gph
WASH PRESSURE	250 psi
PUMP TYPE	duplex piston
PUMP SPEED	300 rpm
CHECK VALVES	non-corrosive disc type
SOLUTION TANK	20 gallons
FUEL TANK	20 gallons
BURNER JET SIZE	4 gph
CLEANING HOSE	1/2" ID x 25'
CLEANING GUN	swivel, insulated, 1/4" x 48"
DIMENSIONS	90" L x 41" W x 85" H
WEIGHTS	815 lbs. net, 990 lbs. crated

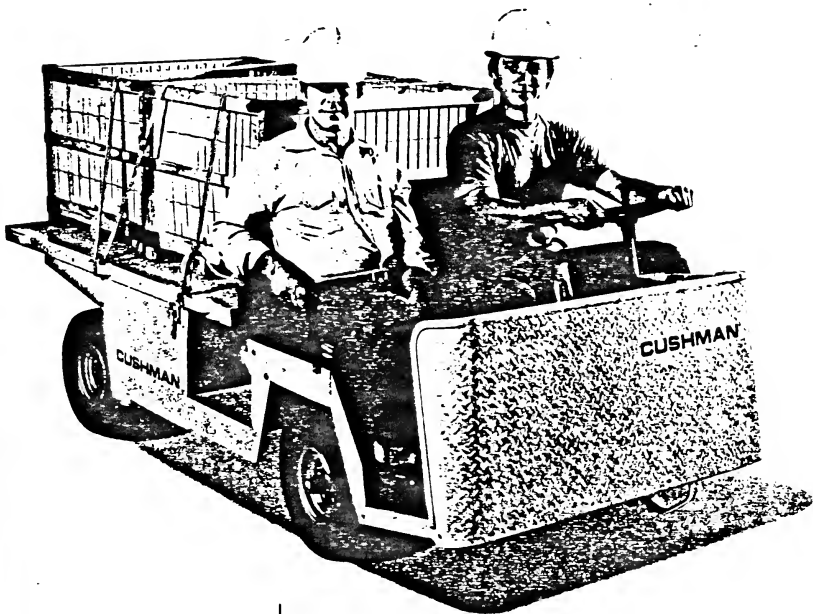
(Complete specifications on Form No. 02-70-21)



Titan™

ELECTRIC/OFF-ROAD

067



Combine big muscle with big savings in energy and manhours and you've got the Titan productivity story. It's a success story that has put Titans to work in a variety of applications across the country.

For 1981, we've got a Titan for every need...right across the board.

TITAN 315

The Titan 315 has the muscle it takes to carry an operator and a passenger, *plus* a full ton of cargo. Or it'll handle as many as eight people for a quiet, fume-free in-plant tour.

The 315 is heavy-duty throughout, with 4-ply 5.70 x 8" front tires and a full 3-ply rating on the rear. Powered by a heavy-duty 36-volt electrical system, the 315 moves along at up to 9 mph (14.5 km/h) forward or reverse.

But the 315 doesn't get burdened by its brawn. It is still only 49" (1245 mm) wide and has a tight clearance circle of less than 20' (5.9 m), so it's built to maneuver in tight quarters.

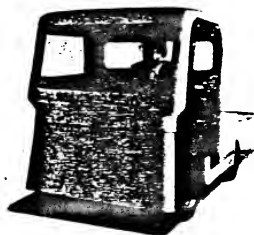
TITAN 316

The Model 316 has become the standard for mobilizing personnel or equipment around plants, parks, stadiums or wherever a top speed of up to 13 mph (20.9 km/h) can save you time...and money.

It features the same 36-volt system as the Model 315 but with a 1,500-pound (680 kg) payload capacity. But its real payoff is in all-around practical performance.

MODEL 317

The 317 Titan is specifically engineered to meet the grueling demands of stop-and-go work or operating at low speeds. A very



SPECIFICATIONS/MODEL 317 TITAN VEHICLE

STANDARD EQUIPMENT/DIMENSIONS/ACCESSORIES/MODIFICATIONS

POWER	Motor	36-volt, DC series, up to 54 hp at 2000 rpm, and 8 hp at 1400 rpm (when operated at 48 V)
	Drive	Heavy duty 3 V belts
	Differential	Worm driven, full recessed gearing, aluminum housing, 13:1 ratio
STEERING		Wheel-type, 16:1 ratio
BRAKING		Hydraulic on rear wheels, mechanical parking brake acts on rear wheels
ELECTRICAL	System	48-volt system uses eight 6-volt batteries. Covered sliding contact battery-tapping system. System meets FM requirements.
	Charger	Fully automatic, line compensating battery charger.
	Lights and Standard Equipment	Tailight spotlight horn
SEAT		Full-width bench type vinyl upholstered foam seat with full width backrest
BODY		16-gauge diamond plate steel rear deck and front panel, side body panels are 12-gauge steel
COLOR		Yellow or white
TIRES		5.70 x 8, 4-ply rating, nb tread
SUSPENSION	Front	Special design rubber suspension
	Rear	Coil springs and shock absorber
DIMENSIONS		
	Overall Length	106" (2692 mm)
	(with 5 pass. seat)	116" (2946 mm)
	(with 8 pass. seat)	124" (3162 mm)
	Height of Cab	65" (1670 mm)
	Height of Bed	26 1/4" (673 mm)
	Overall Width	49" (1245 mm)
	Bed Size	61 1/4" (1562 mm) long x 45 1/4" (1162 mm) wide
	Wheel Base	55" (1397 mm)
	Wheel Tread	36" (914 mm)
	Intersecting Axle Clearance	Minimum intersecting axle 54" (213.36 cm) Outside clearance circle 19 1/2" (594.36 cm) Inside clearance circle 68" (172.72 cm)
	Weight	1385 lbs. (628 kg) with 190 amp batteries
PERFORMANCE		
	Speed (Maximum)	12 mph (19 km/h) forward and reverse
	Range	Up to 45 miles (72 km) per charge, depending on use
	Payload	1500 lbs. (680 kg) plus operator and one passenger
DEALER INSTALLED ACCESSORIES		Front and rear facing personnel seat, pin and clevis trailer hitch (w/out ball), pintle hitch, automatic hitch, canopy, fiberglass cab, cloth doors, turn signals, electric windshield wiper, hourmeter, headlight set, 43" (1092 mm) x 15" (406 mm) x 17" (432 mm) high tool box, stake racks, front bumper, front shocks, spare tire
FACTORY INSTALLED MODIFICATIONS		Steel guard tires, wide tires, front hydraulic brakes, white seats

*Gradeability

12 MPH (19 km/h) Titan

1500 lb. (680 kg) Payload Rating

Gross Vehicle Weight*		Gradeability for Unlimited Distances at 12 MPH (19.3 km/h) & Faster		Gradeability for Limited Distance at Less Than 12 MPH (19.3 km/h)	
lbs.	kg				
1400	635	14%		36%	
1600	726	12%		33%	
1800	816	11%		29%	
2000	907	10%		26%	
2200	998	9%		23%	
2400	1089	8%		21%	
2600	1179	7%		20%	

Drawbar Pull (Level Ground)

12 MPH (19 km/h) Titan

1500 lb. (680 kg) Payload

Vehicle Speed		Drawbar Pull	
mph	km/h	lbs.	
3.2	5.1	365	
4.0	6.4	260	
6.0	9.7	195	
8.0	12.9	120	
12.0	19.3	40	

*Calculated equivalent based on available power, efficiency and axle ratio

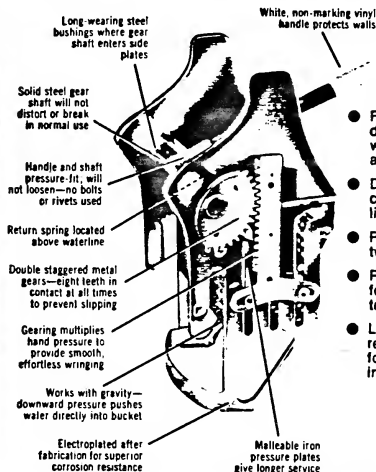
**Gross vehicle weight equals weight of the vehicle, plus operator(s), plus payload.

Towing not recommended at speeds greater than 12 MPH (19.3 km/h)

*Specifications, standard equipment, accessories and modifications subject to change without notice

GEERPRES. DOWNWARD-PRESSURE WRINGERS

0-68



- Famous Geerpres-developed downward-pressure design makes wringer three times as efficient as other types.
- Dependable all-metal construction for maximum product life. No bolts or rivets used.
- Prolongs mop life—no mop twisting needed.
- Return spring has extra end-loop for safety; can't snap off under tension.
- Lightweight—excess metal removed; remaining metal formed into channels for increased strength.

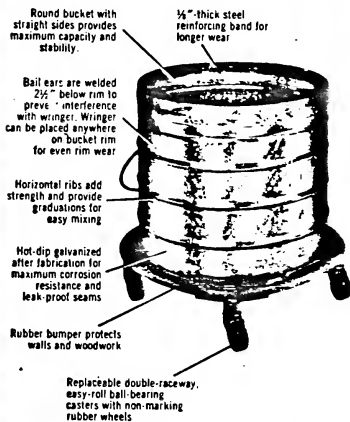


- Virtually noise-free operation.
- Same high-quality construction as regular Geerpres downward-pressure wringers.
- Ideal for hospital and nursing-home use.

MODEL	MOP SIZE	STOCK NO.	CARTON SHPG. WT.
FLOOR-KNIGHT	8-16 oz	21	20 lbs (2 per ctn)
FLOOR-PRINCE	16-24 oz	10	31 lbs (2 per ctn)
FLOOR-KING	24-36 oz	15	37 lbs (2 per ctn)
WHISPERWRING	16-24 oz	1	16 lbs (1 per ctn)

15 →

GEERPRES. ROUND GALVANIZED BUCKETS



- Long-wearing 1/4" steel reinforced rim.
- Zinc-coated after fabrication for leak-proof seams and superior corrosion resistance.
- Closed bail ears can't snag mops; won't interfere with wringer placement.
- All-welded construction—no bolt or rivet holes to invite corrosion.
- Grommet hook-up feature makes two-bucket mopping easy.

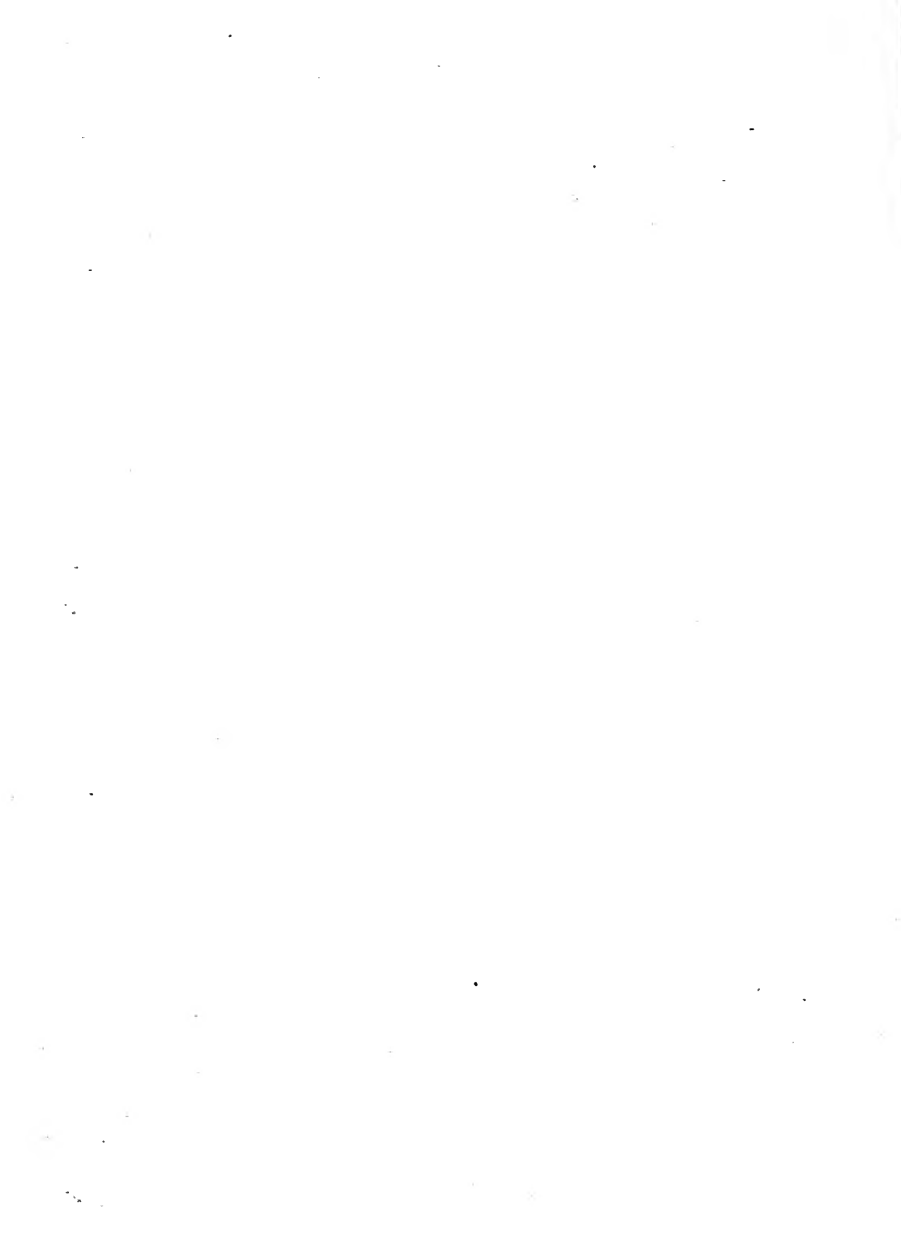


Buckets with bumpers have convertible self-storing plated hooks which can be used to join two buckets; units trail smoothly behind each other.

SIZE	MODEL	STOCK NO.	SHPG. WT.
4 gal	without casters (light duty)	32	11 lbs*
4 gal	without casters (heavy duty)	33	15 lbs*
8 gal	without casters	24	12 lbs
11 gal	without casters	25	14 lbs
4 gal	on casters (light duty)	20	8 lbs
4 gal	on casters (heavy duty)	34	10 lbs
8 gal	on casters	23	15 lbs
11 gal	on casters	26	17 lbs
4 gal	on casters w/bumper (heavy duty)	34-B	12 lbs
8 gal	on casters w/bumper	23-B	17 lbs
11 gal	on casters w/bumper	26-B	18 lbs

26B →

*Packed 2 per carton, others packed 1 per carton.





WET MOPS

069

Golden Star employees regularly produce more than 20 different types, styles and sizes of wet mop heads. And, they make sure each one is ready for a workout with a minimum of three quality checks.

Wet mops are just one part of the Golden Star dust control system. But we make them as if they were the only one.

Starborne™ Premium Wet Mops

Exclusively from Golden Star, premium wet mops that live up to their name: Starborne. Fresh-looking mops that outperform them all.

A: Starborne Blue™ Made with a special blend of yarns: rayon for fast pickup, cotton for retention, polyester for durability. Blue color won't wash out even with daily laundering. 2-ply high-bulk yarn assures long, consistent performance with faster, easier pickup. Available in four sizes with single or double tailbands.

B: Starborne™ Like Starborne Blue™, Starborne™ white features looped ends and color-coded tailbands. Available pre-shrunk or regular. Absorbs up to 5 times its weight in liquid.

Standard Wet Mops

Golden Star standard wet mops let you fit the tool to the task with a variety of yarns, mop head styles and handles.

C: Yarns. Use our exclusive Yarn Selector Guide, to select the right yarn for the job.

D: Comet Blend. A 4-ply, superior rayon-cotton blend with better absorbency and retention than nonblended yarns.

E: Superior Cotton. 4-ply performance, tightly twisted for abrasion resistance. Used in industrial plants and restaurants. Shown in Sta-Flat fan-tail style.

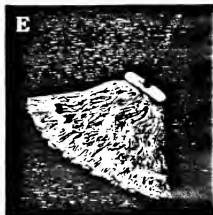
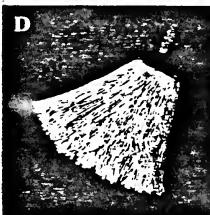
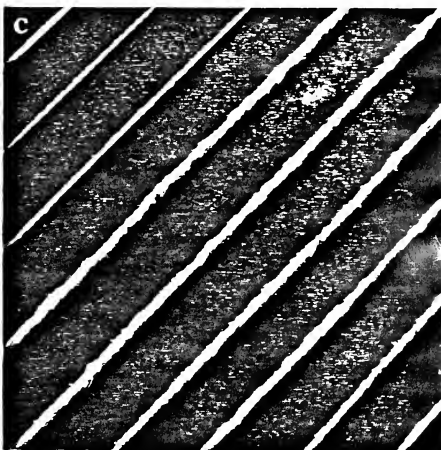
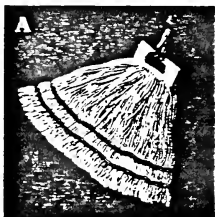
F: Quality Cotton. 4-ply, loose twist for fast absorbency.

For everyday use on most floors. Shown with standard 1 1/4" headband.

G: Sno-White Rayon. In 4-ply or 8-ply, the finest, whitest yarn available—and it stays that way even after prolonged use. Shown with 4" headband and fan-tail.

H: King Cotton. 8-ply, hard twist, small yarn with good tensile strength and wearability. Use in high traffic areas on smooth concrete, wood, etc. Shown with 6" canvas headband.

I: Admiral Cotton. 8-ply, hard working, industrial yarn with 4-ply pickup. Shown with 6" headband and fan-tail.



J: Victory Cotton. 16-ply, small, tightly twisted yarn for extra strength and durability. Use on rough concrete or other problem surfaces. Shown with 1 1/4" headband.

K: California String Cotton. Our best cotton yarn. 8-ply, tight twist with fine appearance and extra-strong tensile strength. Use for spreading finish or other applications. Shown with 1 1/4" headband and fan-tail.

L: Beamer Cotton. Drop-ply, all-cotton string yarn. Excellent for applying finish. Pictured with standard 1 1/4" headband.

Special Services

Golden Star standard wet mops are available in a variety of headband, fan-tail or Sta-flat mop head styles.

Headband. Choose from 1 1/4" standard headbands or easy-load 4" or 6" headbands in either canvas or mesh. Available in all yarn types.

Fan-Tail. Prevents tangling during use or drying. Available in all yarn types.

M: Sta-Flat. Works like a deck mop. Great maneuverability. Detachable, interchangeable handle. Available in most yarn types and in two sizes, Maid and Janitor.

Handles

Designed for durability and easy mop changing.

N: Quik-Lok™ Cam-action lever release. Grips mop like a vise. Available in Maid, Janitor and Sure-Grip. Works best with 4" and 6" headbands.

Wet Mop Handles. Heavy-duty, natural lacquered handles available in Spring Lever, Wing Nut and Quik-Change styles. Maid and Janitor sizes.

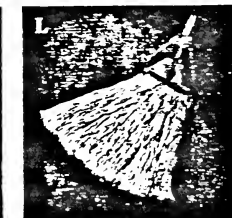
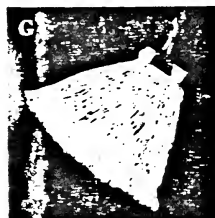
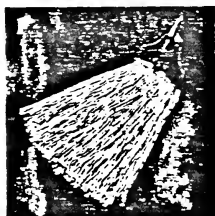
Threaded and Tapered Handles. Wood-threaded, metal-threaded and tapered handles. Available in three sizes.

Specialty Mops

Where standard mops aren't right for your use situation, choose a Golden Star specialty mop.

O: Watersbag™ The "wet mop with a backbone" for easy finish application. Has three times the yarn ends of conventional wet mops for higher absorbency.

Deck Mops. Permanently attached handles provide a low center of gravity to minimize the fatigue factor.





DUST MOPS

0-70

Effective dust control starts with efficient tools. In dust mops that means the right size mop for the work area in the right style for the job with the right fiber for the soil level and type. In other words, a mop with the yarn, backing and hardware Golden Star mops have had for more than 70 years.

Professional-Grade Heads

Pro-Line™ or **Colorfield™**
The choice of maintenance professionals for performance and durability. Rugged, easy-to-use hardware in 5"-wide styles with your choice of three head types.

A: Pro-Line™ The ideal mop: prelaundered to remove lint and cottonseed oils, solution-dyed in one of six colors, professionally treated, and sealed in a polyethylene bag. The most cost-efficient 12 percent you can spend.

B: Colorfield™ Color-code your mop heads permanently. Never-fade, vat-dyed yarn matches Invincible™ backing. Use contrasting colors for up to six different combinations.

Professional-Grade Hardware

Collapsible Set-O-Swiv* (5" wide). The most reliable folding frames in the industry.

Rugged patented Set-O-Swiv* connector. All it takes is a touch of the foot to release soiled mops. (See A.)

Quik-Change* (5" wide). One-piece rigid frames with rugged swivel clips. "Frame" in a central location, then deliver to service closets or outlying use points. A touch of the thumb releases soiled mops. (See B.)

Industrial-Grade Heads

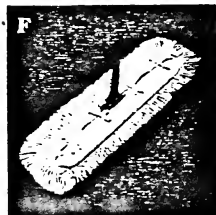
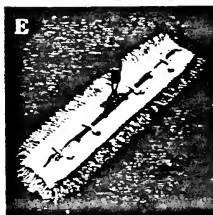
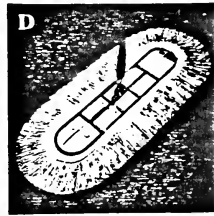
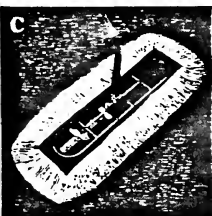
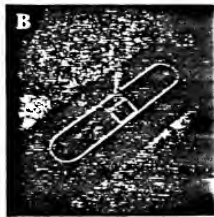
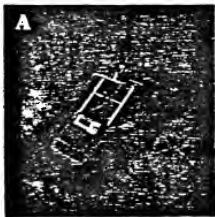
When you need heavy-duty tools, choose 5"-wide Jumbo Set-O-Swiv* hardware with 12-oz. Sanforized canvas or color-coded Invincible™ heads. Or, pick one of two 5"-wide dis-

posables. Miles of floor care for pennies a day!

C: Invincible™ Optional backing looks great, color-codes and eliminates mildew. Natural cotton yarn on rugged synthetic backing. Vat-dyed, permanent colors. Fits almost any frame.

D: Wide-Sanforized. Jumbo size industrial backing with less than 1 percent shrinkage, more durability.

E: Dispo-Treet I™ (wide-style). First-line dust mop performance, but disposable convenience. Tufted construction from 100 percent tube-spun, tight-twist cotton yarn for fast pickup and easy



shake-out. Pretreated with bacteriostatic Dus-Trol® mop treatment. Available in standard narrow and wide sizes.

F: Disposo-Treet II™ (wide-style). The same yarn by weight as Disposo-Treet I. Double rows are securely sewn so strands won't pull out. Pretreated with Dus-Trol®. Available in standard sizes to fit almost any frame.

Industrial-Grade Hardware

Jumbo Set-O-Swiv® (5" wide). 360° swivel-action maneuverability. ¼" steel rod. chrome-plated Heavy Ramin

wood handles reduce splintering. (See D.)

Standard-Grade Heads

Product dependability. No surprises—just results. Standard 3" or 3½" widths. Sanforized or regular backings. Nylon or blended yarns optional.

Narrow Sanforized Heads. The standard choices are Regular Set-O-Swiv® 500 Line and Three-Way. (See handle photographs.)

Corridor Heads. Fits Corridor and TS Set-O-Swiv Frames. Sanforized backing optional.

Standard Hardware

G: TS Set-O-Swiv® (3½" wide). With the same patented swivel mechanism and many of the features found on our professionally sized frames.

H: Corridor Frame (3½" wide). Economy in a rigid dust mop. Pregalvanized steel prevents rusting, increases service life. Pictured is standard mop head with optional Dura-Loop™ fringe.

I: Three-Way (3½" wide). Permanently attached handle, 3 positions. Ideal for walls and hard-to-reach places.

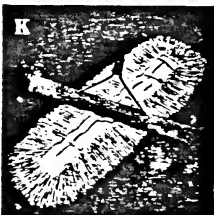
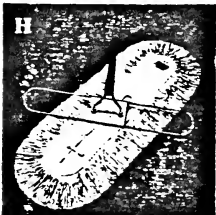
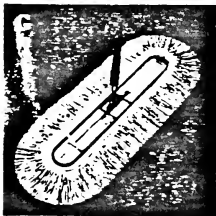
J: Regular Set-O-Swiv® (3" wide). Lighter gauge steel,

yet the versatility of a Jumbo mop. Chrome-plated with Ramin wood handle. Shown with Sanforized mop head.

K: 500 Line Push Mop (3" wide). For rigid dust mopping in large areas. Extra long yarn trim available—order 600 or 800 Line.

Narrow Disposo-Treet and Narrow Disposo-Treet II. Same quality as wide style Disposo-Treet pictured in E and F.

L: Spredmatic™ Cover 24 inches to 8 feet in one pass. You save up to 60 percent of your labor costs. Handles of heavy gauge steel, heat-coat-

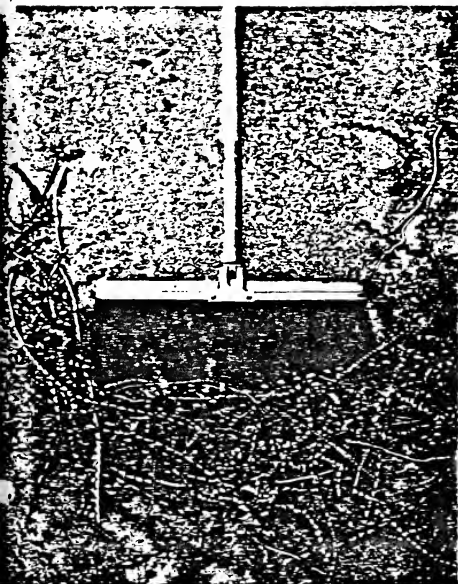


**ROUGH
FLOORS**

0-71

THE TOUGH GUYS!

**For use where irregularities in floor texture
and contour are present.**



30-00 Designed for the roughest of jobs, this polypropylene brush will outswEEP and outwear any other in its class. Its ability to resist abrasion, grease, oil, heat and sunlight make this the finest heavy-duty floor brush available today. Trim 4 inches.

30-14	14"	30-24	24"
30-16	16"	30-30	30"
30-18	18"	30-36	36"

41-00 This design is not only perfect for heavy sweeping in factories, garages or pavements and driveways, but it is also excellent for moving heavy debris and dirt on wet or greasy surfaces. Tough, durable bassine fibre makes these long wearing brushes super for heavy-duty work both inside and out. Long 5 1/4 inch trim.

41-14	14"	41-24	24"
41-16	16"	41-30	30"
41-18	18"	41-36	36"

42-00 Intended for medium heavy sweeping, this brush utilizes a center of stiff bassine to move the heaviest litter, while a border of union fibre gets the finer dust, dirt and debris. This clean-sweeping double-duty brush is excellent for factory use, which makes it a very popular style. Long 5 1/4 inch trim.

42-14	14"	42-24	24"
42-16	16"	42-30	30"
42-18	18"	42-36	36"

40-00 The choice of short trim bassine fibre makes this brush very stiff and an excellent scrubbing tool for heavy use by dairies, bottling plants or wherever wet flooring is present. Also ideal for pushing or sweeping heavy dirt. Short 3 1/4 inch trim.

40-14	14"	40-18	18"
40-16	16"	40-24	24"

AVERAGE FLOORS

FOR AVERAGE FLOORS, TRY OUR ABOVE AVERAGE BRUSH

Makes work effortless on old wood, oiled wood, smooth concrete and textures where fine and heavy litter is present.

31-00 This medium-duty polypropylene filled brush combines exceptionally long wearing qualities with resistance to heat, sunlight, water, oils, grease, acids and alkalis. An above average tool for use on average floors. Trim 3 3/4 inches.

31-14	14"	31-24	24"
31-16	16"	31-30	30"
31-18	18"	31-36	36"

70-00 Here is a top quality all-round brush for light factory and warehouse work. A union fibre center carries away heavier dirt and debris while sterilized grey horsehair removes all the fine dust. This double-duty brush is excellent for use on average floors. Trim 3 3/4 inches.

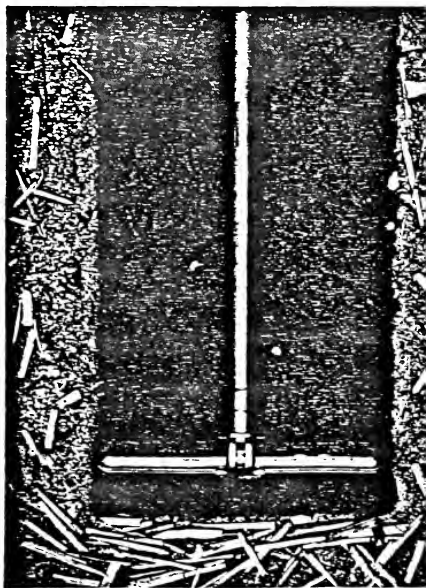
70-14	14"	70-24	24"
70-16	16"	70-30	30"
70-18	18"	70-36	36"

12-00 This inexpensive brush is ideal for sweeping heavy debris thanks to a balanced combination of bassine, palmetto and tampico fibres. These elements allow it to resist water and oil, and make it an ideal candidate for long service in the factory, warehouse, garage or wherever hard use is required. Trim 3 3/4 inches.

12-14	14"	12-24	24"
12-16	16"	12-30	30"
12-18	18"	12-36	36"

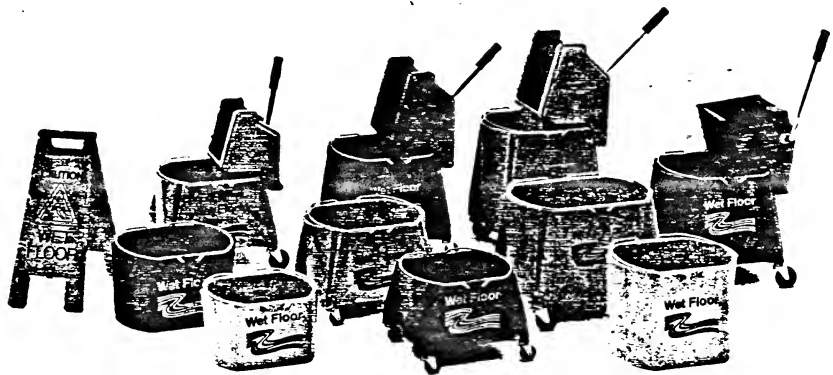
17-00 A must for clean-ups in machine shops and printing shops where paper scraps and metal chips accumulate. The center row of spring steel wire tufts combined with horsehair and patent fibre border will move larger scrap while catching the fine dust and light debris. Not recommended for use on wet floors. Trim 3 3/4 inches.

17-14	14"	17-24	24"
17-16	16"	17-30	30"
17-18	18"	17-36	36"



Brute® Mop Bucket Line

0-72



Impervious to germicidal cleaning solutions. One-piece Duramold™ construction insulates to keep water hot longer. And it has no seams to rust or leak. Unique buttress design gives

superior strength to side walls. Each bucket also features two handles for easy carrying, along with a permanent "wet floor" imprint.

BRUTE® MOP BUCKETS

No.	Description/Dimensions	Color	Pack
*6110	18 qt. w/2" casters (14 1/4" x 14" x 11 1/4" high)	Yellow, Bronze	1
*6115	18 qt. without casters (14" x 14" x 8 3/4" high)	Yellow, Bronze	1
*6111	26 qt. w/2" casters (15 1/4" x 16 1/4" x 12 1/4" high)	Yellow, Bronze	1
*6111-88	26 qt. w/3" casters (15 1/4" x 16 1/4" x 13 1/4" high)	Yellow, Bronze	1
*6113	35 qt. w/2" casters (15 1/4" x 16 1/4" x 15 1/4" high)	Yellow, Bronze	1
*6113-88	35 qt. w/3" casters (15 1/4" x 16 1/4" x 15 1/4" high)	Yellow, Bronze	1
*6116	26 qt. without casters (16 1/4" x 14 1/4" x 10 1/4" high)	Yellow, Bronze	1
*6117	35 qt. without casters (15 1/4" x 15 1/4" x 12 1/4" high)	Yellow, Bronze	1
*6118-88	44 qt. w/3" casters (19 1/4" x 15 1/4" x 16 1/4" high)	Yellow, Bronze	1

*U.S. Pat. No. D-233,003

Custom imprinting available. See your Rubbermaid Sales Representative.

RUBBERMAID FLOOR SIGNS

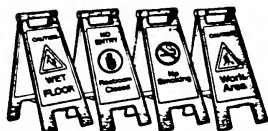
No.	Description	Color	Pk.
6109	"Wet Floor" sign hot stamped in black	Yellow	6
6109-77	Hispanic/English "Wet Floor" sign hot stamped in black	Yellow	6
6109-78	"Restroom Closed" sign hot stamped in black & red	Yellow	6
6109-79	"No Smoking" sign hot stamped in black & red	Yellow	6
6109-80	"Work Area" sign hot stamped in black	Yellow	6
6109-94*	Custom Imprint Other Message	Yellow	6

*Normal Lead-Time Applies. See Your Rubbermaid representative for further information.

BRUTE® MOP BUCKET DOLLY

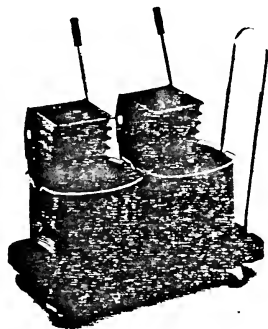
No.	Description/Dimensions	Color	Pk.
6120	Brute Mop Bucket Dolly with 3" casters (35" x 18 1/4" x 5 1/4" h.)	Bronze	1

Majority of industry mop buckets fit this Dolly.



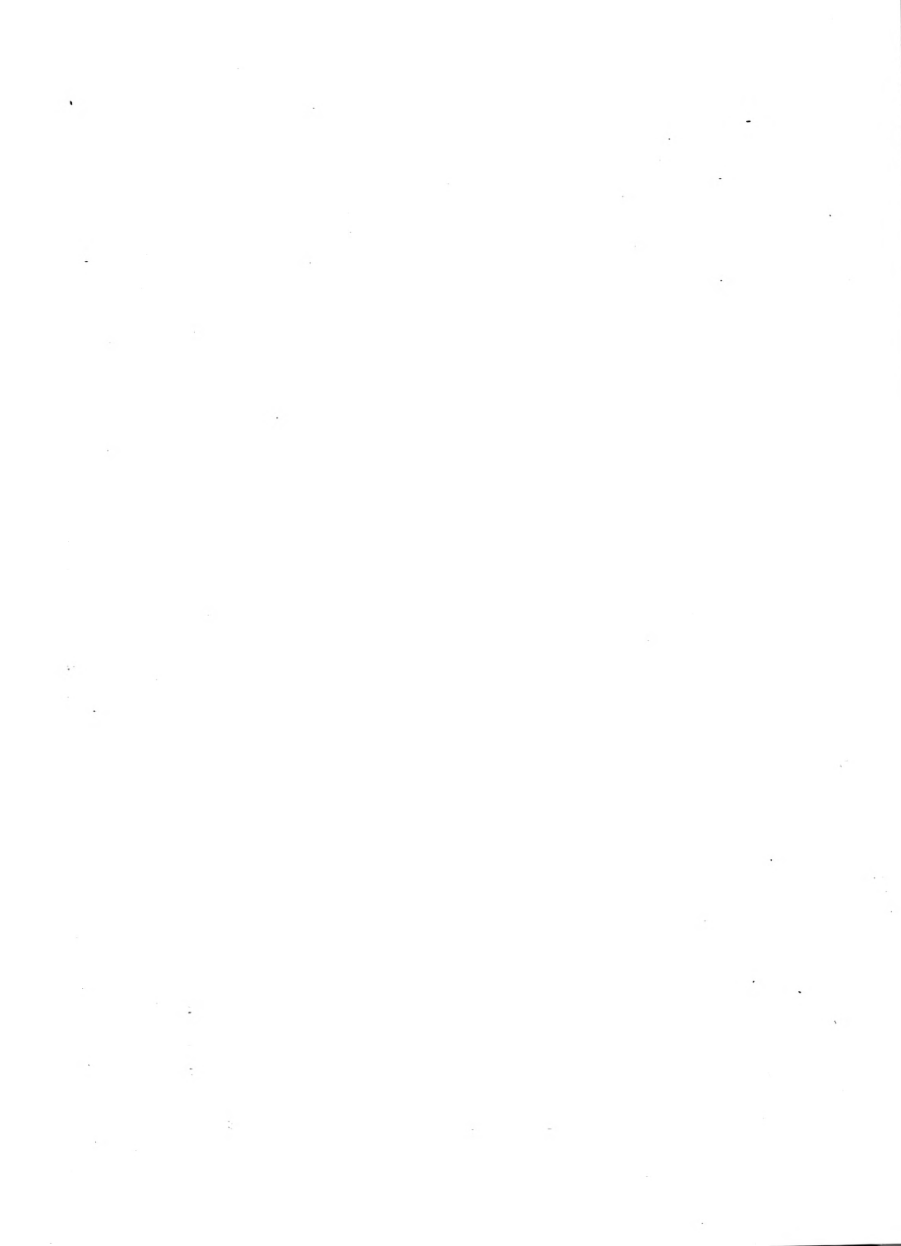
RUBBERMAID FLOOR SIGNS

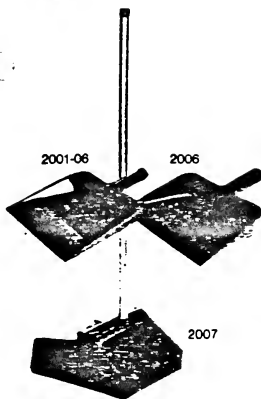
Hot stamped "Wet Floor" lettering won't chip, peel, or fade. Durable non-corrosive, polypropylene sign won't dent and no maintenance is ever required. Also features a life hinge that can't wear out. Large imprinted message is highly visible. Custom messages in different languages are also available.



BRUTE MOP BUCKET DOLLY

Made of the same tough Duramold material as the Brute buckets. The dolly casters fit in either a fixed or full swivel position.





Won't rust, corrode, or dent. Smooth lip hugs floor for easy sweeping pickup. Lobby pan features strong aluminum handle that swings freely or snap-locks into upright position for easy use.

HEAVY DUTY DUST PAN

No.	Description	Color	Pk.
2006	Dust Pan 8 1/4" x 12 1/4" x 12 1/4"	Bronze	12

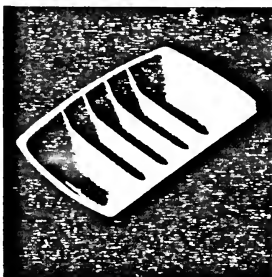
DUST PAN

No.	Description	Color	Pk.
2001-06	Dust Pan 8 3/4" x 11 3/4" x 12 1/4"	Gold	6

LOBBY DUST PAN

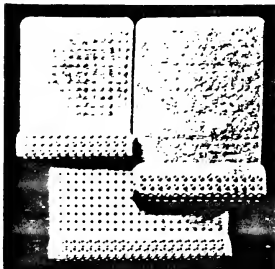
No.	Description	Color	Pk.
2007	Lobby Dust Pan 5 1/4" x 12" x 36 1/4"	Bronze	6

VINYL SOAP DISH



Deep well design to hold any size bar of soap. Ribbed detail holds soap away from water. Easy to clean.

No.	Description	Color	Pk.
2206-92	Vinyl Soap Dish 3X5"	White	48



Suction cups on mat hold it firmly in place for safe footing. Always lays flat and trim. Impervious to soaps and detergents.

No.	Description	Color	Pk.
7041-06	Bath Mat 16" x 28"	White	6

U.S. Pat. No. D-212,241

No.	Description	Color	Pk.
0450-06	Bath Mat 14" x 22 1/2"	White	12

U.S. Pat. No. D-223,278

No.	Description	Color	Pk.
7112	Shower Mat 22 1/2" square	White	4

BATH APPLIQUES



Adhesive-backed and easily applied, these Safety Strips grip the tub securely. Top surface gives safer footing and are easily cleaned.

No.	Description	Color	Pk.
7085-06	Bathtub Applique Set (contains 7 large & 7 small appliques)	White, Gold	12

BATHTUB SAFETY STRIPS



Adhesive-backed and easily applied, these Safety Strips grip the tub securely. Top surface gives safer footing and are easily cleaned.

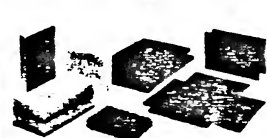
No.	Description	Color	Pk.
7075-06	Bathtub Safety Strips 19 1/2" long, 6 strips per package	White, Gold, Pink, Blue	12



This durable caddy makes it possible to carry tools or maid's supplies with greater ease. Lightweight and durable, fits easily on most janitor carts.

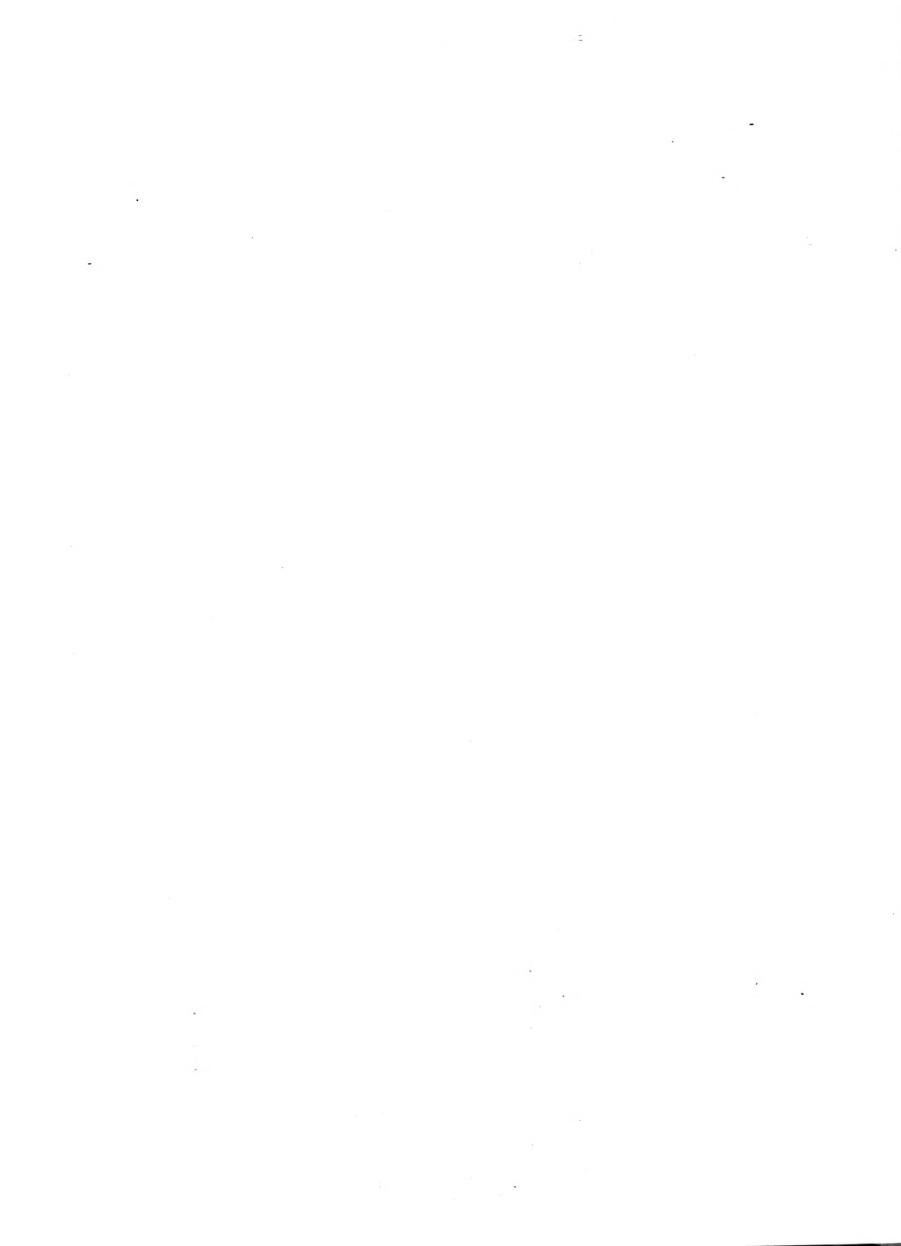
No.	Description	Color	Pk.
3153-06	Carry Caddy 15 1/2" x 10" x 5 1/4" h.	Brown	6

SCOURING/HAND PADS



Complete line for every scouring and polishing job. Sized and color coded to industry standards. Finest abrasive granules and fibers for long service.

No.	Approximate Size	Pack
6294	Cellulose Sponge/ Scouring Pad 6 1/2" x 3 1/2" (equiv. to 3M74) Yellow Sponge Green Pad	40 Pads (8 packs/ carton) (5 pads/ pack)
6295	Non-abrasive Sponge/Scouring Pad 6 1/2" x 3 1/2" (equiv. to 3M63) Yellow Sponge White Pad	40 Pads (8 packs/ carton) (5 pads/ pack)
6296	Heavy duty Scouring Pad 6" x 9 1/2" (equiv. to 3M86) Color—Green	60 Pads (6 packs/ carton) (10 pads/ pack)
6297	Standard duty Scouring Pad 6" x 9 1/2" (equiv. to 3M96) Color—Green	60 Pads (6 packs/ carton) (10 pads/ pack)
6299	Extra heavy duty Grill Cleaning Pad 4" x 6" (equiv. to 3M46) Color—Black	60 Pads (6 packs/ carton) (10 pads/ pack)
6292	Pot Scrubber 3 1/2" x 5" (equiv. to 3M88) Color—Blue	36 Pads (3 packs/ carton) (12 pads/ pack)
6290	Urethane Sponge/Scouring Pad 6 1/2" x 3 1/2" Yellow Sponge Green Pad	40 Pads (8 packs/ carton) (5 pads/ pack)



Heavy Duty Rubber Hot Water Hose

Part No.	I.D.	Length	Ship Units	Carton Lbs.	Cube
20142	3/4"	25'	5	28	2.3
20146	3/4"	50'	5	54	3.5
20152	3/4"	75'	3	49	3.1
*20160	3/4"	250'	1	53	2.8
20166	3/4"	50'	5	70	5.2
20168	3/4"	75'	3	62	4.1

* 250' of uncoupled hose consisting of 2 lengths, minimum length 100'



All rubber 10-sided cover for maximum abrasion resistance. specially constructed tube withstands prolonged hot water usage. Ideal for washing cars, for use in garages, basements, on farms — wherever industrial-style hot water up to 160° is available. Reinforcing with truck tire fiber for high burst strength.

Heavy duty solid brass couplings with octagon female for firm grip and wrench use.

Internally expanded crimp for maximum water flow.

Commercial Duty Rubber Hose

Part No.	I.D.	Length	Ship Units	Carton Lbs.
22028	3/4"	50'	5	76
22044	3/4"	75'	3	67
22048	3/4"	100'	3	91
22000	3/4"	50'	2	37
22012	3/4"	75'	2	54
*22022	3/4"	250'	1	92
22052	1"	50'	2	53
22054	1"	75'	1	39
22056	1"	100'	1	53

* 250' of uncoupled hose consisting of 2 lengths, minimum length 100'



A rugged commercial quality hose constructed for heavy duty use. An excellent hose for construction applications, parks, garages, golf courses, etc. Designed for hot water use. Tough E.P.D.M. cover provides maximum abrasion resistance, withstands crushing by heavy equipment. Double-braided reinforcement with free flow inner core. Good low temperature flexibility. Heavy Duty solid brass couplings. Standard faucet coupling on 3/4" and 1" I.D. Machined 1" coupling on 1" I.D. hose. 150 P.S.I. working pressure.

Supplex® "RT" Professional Duty Reinforced Vinyl Hose

Part No.	I.D.	Length	Ship Units	Carton Lbs.
22058	1/2"	25'	5	16
22062	1/2"	50'	5	29
22064	3/4"	25'	5	23
22066	3/4"	50'	5	42
22074	3/4"	75'	3	39
22080	3/4"	100'	3	49
*22086	3/4"	250'	1	42
22090	3/4"	50'	5	61
22094	3/4"	75'	3	55

* 250' of uncoupled hose consisting of 2 lengths, minimum length 100'



Tightly knitted synthetic reinforcing provides 125 P.S.I. (500 lb. burst) in this lightweight professional duty vinyl hose. Knit construction resists twisting and kinking, springs back into shape. Swan Weatherguard® additives keep this hose flexible in sub zero temperatures. Maintains burst strength in "hot" sun. Unaffected by nozzle shut-offs. Solid brass heavy duty couplings, octagon female for firm grip and wrench use. A truly premium hose for professionals and quality conscious consumers.

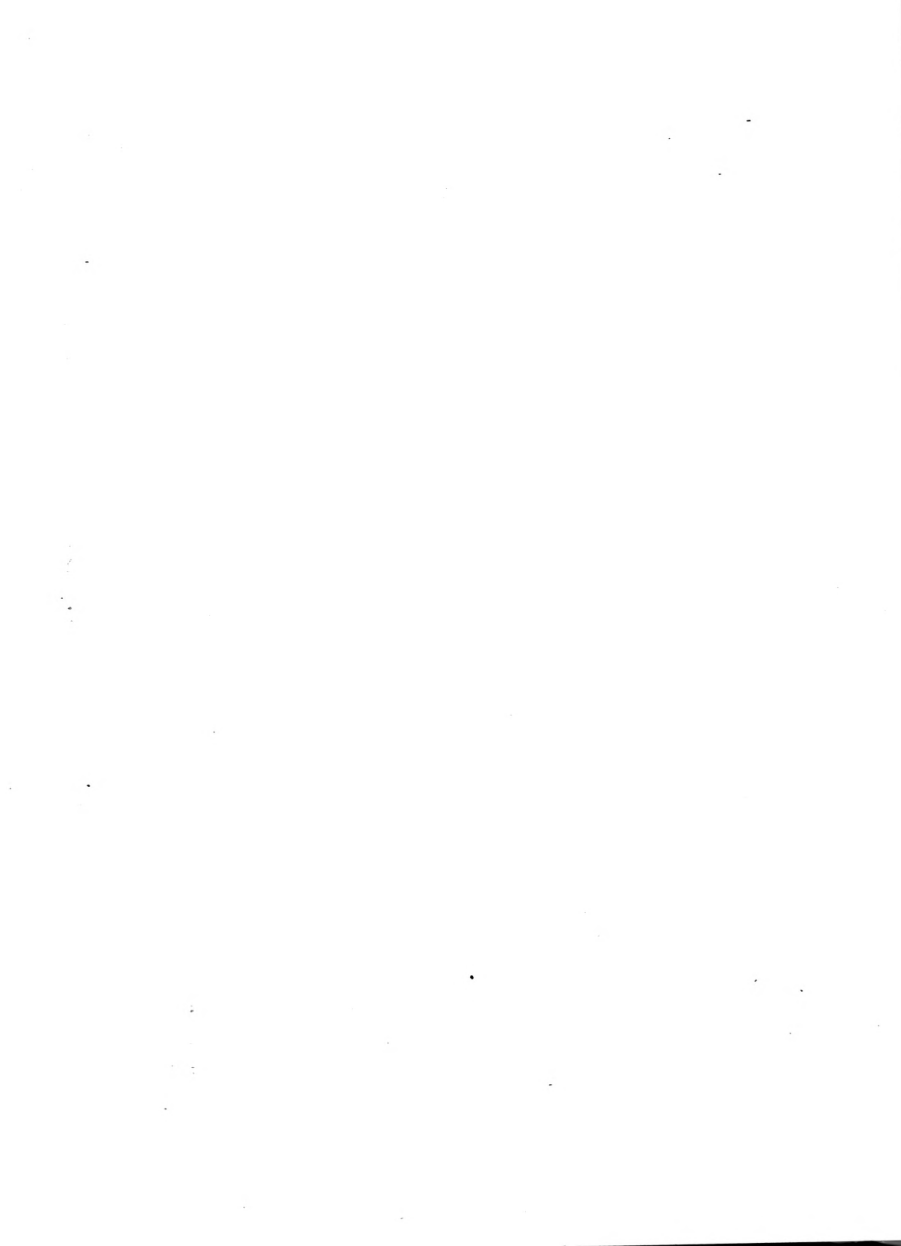
Country Club Commercial Duty Reinforced Vinyl Hose

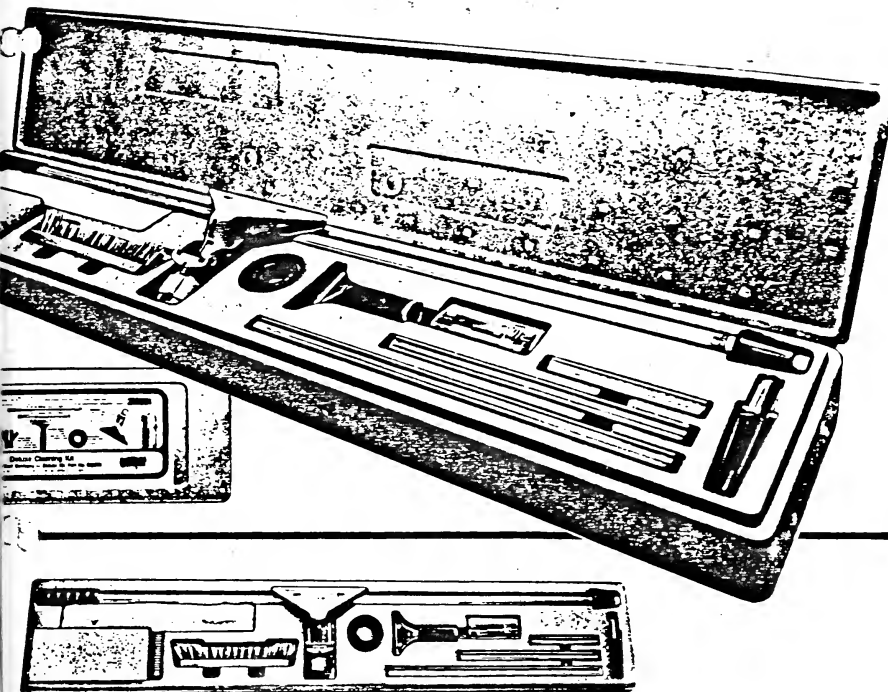
Part No.	I.D.	Length	Ship Units	Carton Lbs.
22096	3/4"	50'	5	
22108	3/4"	75'	3	
22130	3/4"	100'	3	
*22132	3/4"	250'	1	
22136	1"	50'	2	
22138	1"	75'	1	
*22140	1"	250'	1	

* 250' of uncoupled hose consisting of 2 lengths, minimum length 100'



An industrial reinforced P.V.C. water hose designed specifically for golf course, nursery and institutional use. Braided synthetic reinforcing provides 200 lb P.S.I. (150 P.S.I. for 1" I.D.) while specially compounded P.V.C. construction offers extreme flexibility and lightweight handling. Red P.V.C. cover gives good abrasion and weather resistance. Heavy duty solid brass couplings with octagon female. 1" hose comes with standard faucet coupling. 1" hose with machined 1" coupling. The Swan Country Club hose is an excellent choice when long lengths of large water volume hose is required.





1. EIGHT FOOT EXTENSION POLE Rugged, telescoping 8' aluminum extension pole. Twist-lock sleeve securely locks extended portion of pole to any desired position in handle. Use of the extension pole will reduce or eliminate hazardous work on a ladder. Pole has special wear-resistant threaded nylon cone which fits into squeegee handle.

2. 14" STRIP-WASHER COMPLETE Fits on telescoping pole. Highly absorbent, lint-free, washable sleeve for window washing & other cleaning chores.

3. 36" REPLACEMENT RUBBER Extra length of replacement rubber blade material. Rubber blade is molded for "hollow-ground" center to provide two extra sharp wiping edges.

4. 18" SQUEEGEE CHANNEL AND RUBBER

5. 12" SQUEEGEE CHANNEL AND RUBBER

6. 6" SQUEEGEE CHANNEL AND RUBBER

7. FIXI CLAMP Fits on end of extension pole. Securely grips cloth, pad, or sponge for window, wall and floor cleaning.

8. BRUSH FOR FIXI CLAMP Deck brush (8" block) for floor and wall scrubbing fits to upper portion of Fixi Clamp. Brush can be quickly put on or removed from clamp with eye-bolt screws provided. The eye-bolts fit through slots in clamp. Twist eye-bolts to remove brush from clamp.

9. SPONGE FOR FIXI CLAMP Large sponge is provided with Fixi Clamp. Clamp holds sponge securely for window, wall, and floor washing.

10. "PRO" SQUEEGEE HANDLE Fast-lock handle snaps instantly onto any length squeegee channel. Equipped with rubber handle for easier gripping and greater comfort—especially in cold weather. Scraper blade and holder fit into this same handle.

11. 4" SCRAPER BLADES WITH HOLDER Holder snaps instantly into "Pro" Squeegee Handle. Ideal for scraping paint and putty off windows. Five blades and holder. Handle can be instantly converted to scraper.

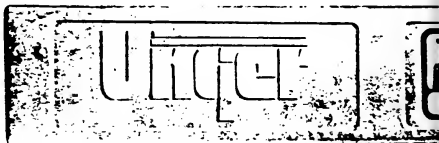
	PRODUCT NO.
DELUXE CLEANING KIT	O 602000

NEW FROM **Unger** DELUXE CLEANING KIT IN MPS*

*(Molded polystyrene)

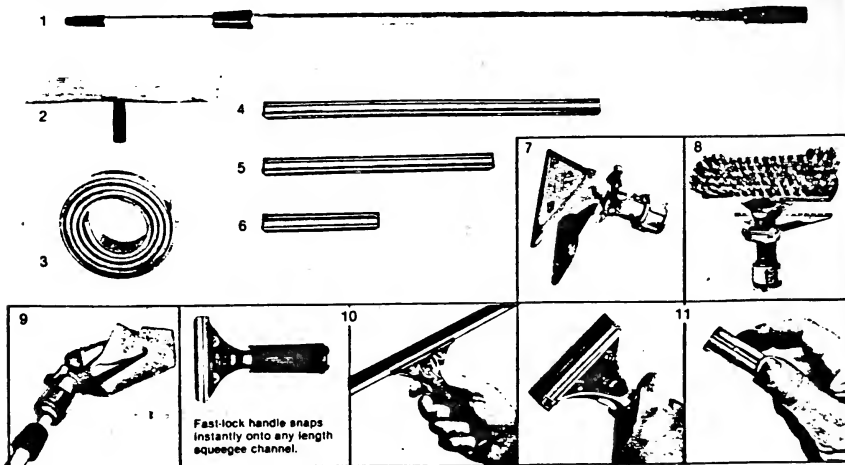
ideal for cleaning:
schools, hospitals, hotels/motels, supermarkets,
industrial plants, offices, and homes.

All tools fit the aluminum telescopic pole enabling window cleaning, washing, scrubbing, drying, dusting, scraping, etc., of walls, floors and ceilings to heights of fourteen feet. The container made of molded polystyrene serves as a durable carrying case for the enclosed tools.



DELUXE CLEANING KIT for cleaning up to 14 feet high

KIT INCLUDES:



THE EDUCATED POLE BY Unger

just decide the job you want done and "Presto"
you snap on the proper tool.

The Unger telescopic poles have pure nylon locking collars and threaded cones, pre-formed oil resistant handles and fluted surfaces for comfortable gripping. The nylon cone snaps and locks into place; tools will not turn while in use.



11. PERLON BRUSH



1. THE PRO SQUEEGEE-
SCRAPER



7. CRANKED JOINT
ANGLE ADAPTOR



9. THE BEBBE -



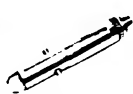
12. RILSAN BRUSH



2. STRIP WASHER



8. PAINT BRUSH-
ROLLER ADAPTOR



10. SMALL THREADED
ADAPTOR



13. WINDOW-
BOAT HOOK



3. SHORT HANDLE
SCRAPER



4. FIXI CLAMP



5. BULB SNATCHER



6. FLOOD SUCKER

Products from *Mr. Window Cleaner

TOOL	Product #
1. THE PRO SQUEEGEE-SCRAPER Add directly to cone. Squeegee or scrape to heights of 33 feet. (Trim-10 Scraper - Part No. 330010 fits Pro handle).	A 020015 thru A 020060
2. STRIP WASHER Add directly to cone for wetting, washing or dusting to heights of 33 feet.	G 440025 thru G 440055
3. SHORT HANDLE SCRAPER Add directly to cone. Scraper has reversible blade, razor edge for fine work and square edge for heavy duty scraping.	K 310001
4. FIXI CLAMP Add directly to cone. A bulldog clamp that holds hand-brush, sponge, steel wool, chamois, nylon pads, mop heads, etc.	H 400000
5. BULB SNATCHER Remove nylon cone and replace with bulb snatcher, exchanges bulbs to 200 watts.	J 713300
6. FLOOD SUCKER Removes and replaces flood lights and electric bulbs, 300 watts and larger. Use with both recessed and exposed lights, inside and outside.	J 713400
7. CRANKED JOINT ANGLE ADAPTOR Remove nylon cone and replace. Permits squeegees, strip washers, scrapers and other tools to be set at proper angle for work at heights or distances.	J 712100
8. PAINT BRUSH-ROLLER ADAPTOR Remove nylon cone and replace. Lock into place paint brush or paint roller which can now be set for proper angle for work at heights or distances.	J 712300
9. THE BEBBE Remove nylon cone and replace with THE BEBBE. A fully insulated tool designed to remove the base of broken electric bulbs and floodlights (with glass catcher).	J 713500
10. SMALL THREADED ADAPTOR Remove nylon cone and replace. Attach directly the perlon and rilsan brushes and the window-boat hook.	H 714323
11. PERLON BRUSH Attaches to small threaded adaptor. A metal backed brush with synthetic (hard) bristles: clean outside walls, boats, swimming pools etc.	I 421100
12. RILSAN BRUSH Attaches to small threaded adaptor. A metal backed brush with synthetic (semi-hard) bristles: clean inside walls, factory windows, cars, trucks, buses, etc.	I 421200
13. WINDOW-BOAT HOOK Attaches to small threaded adaptor. Used with telescopic pole as a window, transom, or boat hook.	I 714541
HANDI (SCRUBBING) BRUSH Ring screws on back of brush fit directly on face of fixi.	H 421800
SPONGE For use in fixi clamp.	H 422000

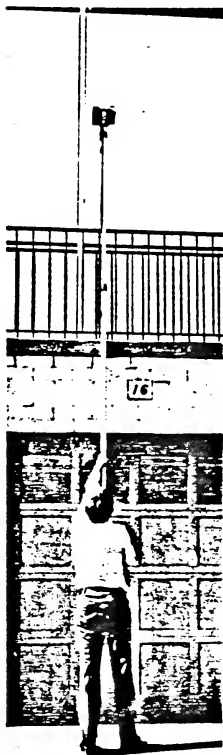
O.K. TELESCOPING EXTENSION POLES

All poles
include
nylon cone
adaptor

Nylon
twist-locking
sleeves

Small
locking
collar

Large
locking
collar



Use of the O.K. telescoping extension poles enables a worker to reach as high as 33 feet. They either totally eliminate or greatly reduce the amount of dangerous time spent on ladders. All O.K. extension poles are made of strong, anodized, extruded aluminum and have nylon locking collars as well as rubber hand grips. Terminating nylon cone is a $\frac{3}{4}$ inch acme thread that will screw into standard threaded broom and brush blocks.

- Threaded nylon cone, flood sucker, bulb snatcher, and all Unger adaptors, lock into place; an advantage over screw type cones: tools do not turn while in use.
- The outer surfaces are fluted for comfortable gripping and easy handling.
- The outer sections of three section poles are quickly and easily removed when they are not required while working at lower heights: the weight of the pole is reduced in half.
- All parts of all poles are replaceable and parts are available.
- All the unique attachable Unger Tools were designed specifically to fit the O.K. telescopic poles.
- Choose from 9 different sizes.

ITEM	PRODUCT NO.
4' EXTENDED LENGTH—TWO SECTION POLE	F 200004
6' EXTENDED LENGTH—TWO SECTION POLE	F 200006
8' EXTENDED LENGTH—TWO SECTION POLE	F 200008
13' EXTENDED LENGTH—TWO SECTION POLE	F 200010
9' EXTENDED LENGTH—THREE SECTION POLE	F 200014
12' EXTENDED LENGTH—THREE SECTION POLE	F 200015
14' EXTENDED LENGTH—THREE SECTION POLE	F 200016
18' EXTENDED LENGTH—THREE SECTION POLE	F 200018
27' EXTENDED LENGTH—THREE SECTION POLE	F 200020
REPLACEABLE PARTS	PART NO.
NYLON CONE ADAPTOR	F 710104
SMALL LOCKING COLLAR	F 714172
LARGE LOCKING COLLAR	F 714176

All poles include nylon cone as standard equipment

BRIGHT STAR

0-77

UNBREAKABLE
TUFLEX[®] LENSBRILLIANT
PR-2 BULB

SWITCHGUARD

CASE RESISTS CORROSION, WATER,
OIL, GREASETWIST-SHOCK
BULB RETAINER

SURE-GRIP BUTTRESS THREADS

COMPARTMENT FOR
SPARE BULB
(BULB NOT INCL.)

2618

2618-R

2618-ML

WORKMATETM

... a D-cell flashlight built to meet heavy industrial needs!

Hi-impact case resists corrosion, water, oil, grease; deeply grooved buttress threads; unbreakable Tuflex[®] lens; PR-2 bulb; switchguard; spare bulb compartment.

No. 2618

2-cell,
24/std. shipper

No. 2618-ML

Same as 2618, with magnet.
12/std. shipper

No. 2618-R

Same as 2618, with ring hanger.

Available in colors:

No. 2601

(Not shown) Same features as 2618. Optional colors green, red, blue, white at slight additional cost. Minimum order 96 pieces.

24/std. shipper

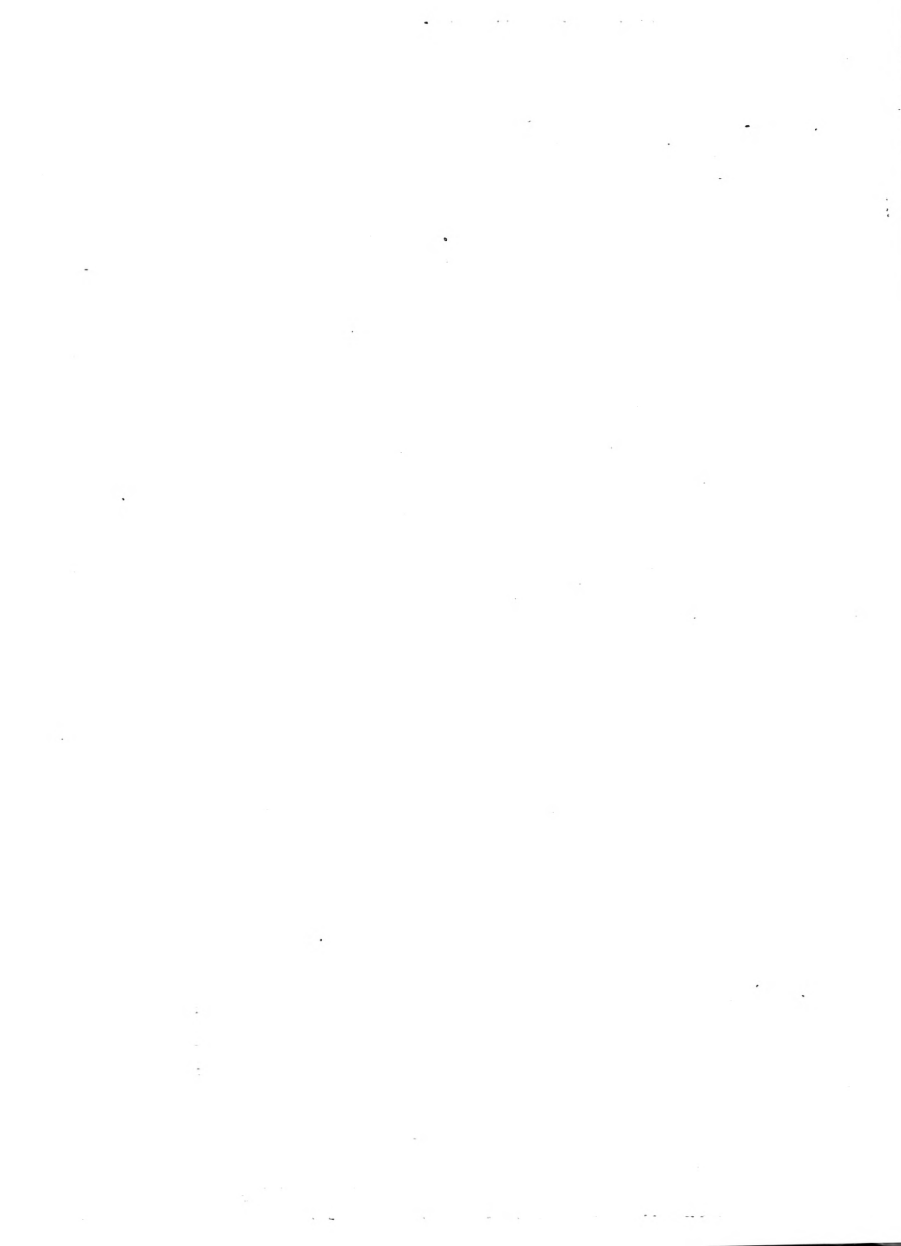
No. 2600 SPARE PARTS KIT

Sturdy plastic kit neatly compartmented containing replacement parts for both No. 2600 and No. 1600 series of flashlights and continuity testers.
1/std. shipper



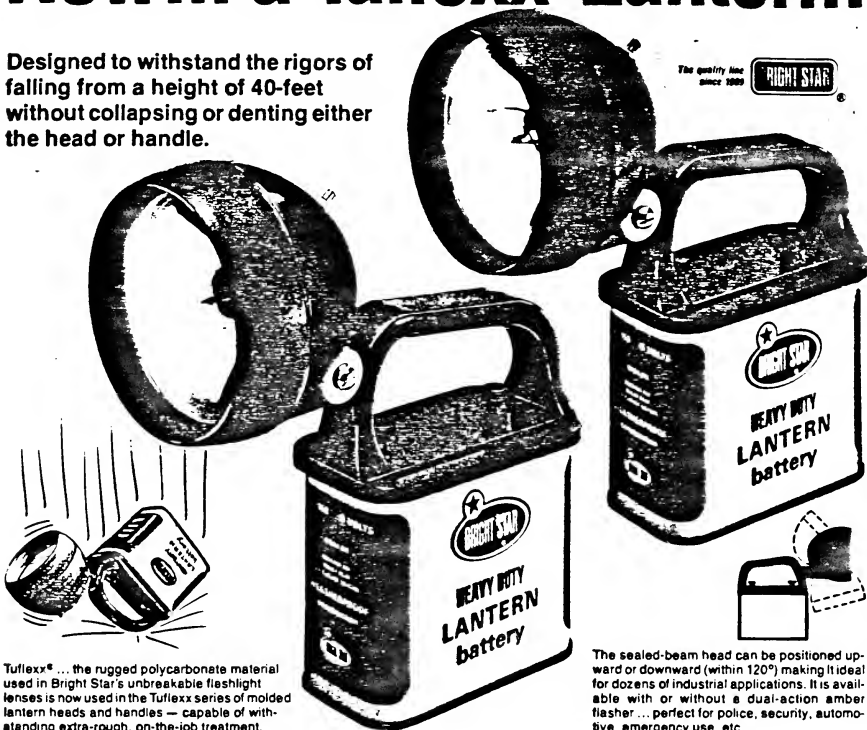
All Workmate parts standard and replaceable. Tuflex[®] lens standard, glass and shatterproof glass lenses available at extra cost.

IMPRINT POLICY: Free 2-line imprint (32-spaces per line) with 96 or more flashlights of one model. Minimum order 48 pieces.



Now... a Tuflexx® Lantern:

Designed to withstand the rigors of falling from a height of 40-feet without collapsing or denting either the head or handle.



Tuflexx® ... the rugged polycarbonate material used in Bright Star's unbreakable flashlight lenses is now used in the Tuflexx series of molded lantern heads and handles — capable of withstanding extra-rough, on-the-job treatment.

The sealed-beam head can be positioned upward or downward (within 120°) making it ideal for dozens of industrial applications. It is available with or without a dual-action amber flasher ... perfect for police, security, automotive, emergency use, etc.

No. 2005— All black Tuflexx lantern, pushbutton switch, No. 4546 sealed-beam bulb. Uses 6-volt No. 158 battery (not included).
6 per std. shipper

No. 2006— No. 2005 lantern with No. 158 battery in unit carton.
6 per std. shipper

No. 2009— Amber flasher Tuflexx lantern with 3-way pushbutton switch, No. 4546 sealed-beam bulb and two No. 407 flasher bulbs. Uses 6-volt No. 158 battery (not included).
6 per std. shipper

No. 2010— No. 2009 lantern with No. 158 battery in unit carton.
6 per std. shipper

*Tuflexx is a registered trademark of Bright Star Industries

REGIONAL WAREHOUSES:

ILLINOIS
3222 W. 40th St.
Fox Lake, IL 60131
312-451-8840

TEXAS
Box 9800
Corpus Christi
BRG-631-3814

GEORGIA
1441 W. 10th St.
Atlanta, GA 30318
404-355-3555

CALIFORNIA (North)
1441 W. 10th St.
San Francisco, CA 94124
415-488-1400

CALIFORNIA (South)
8000 Linderoth Lane
San Jose, CA 95121
415-763-2185

DISTRIBUTED BY:

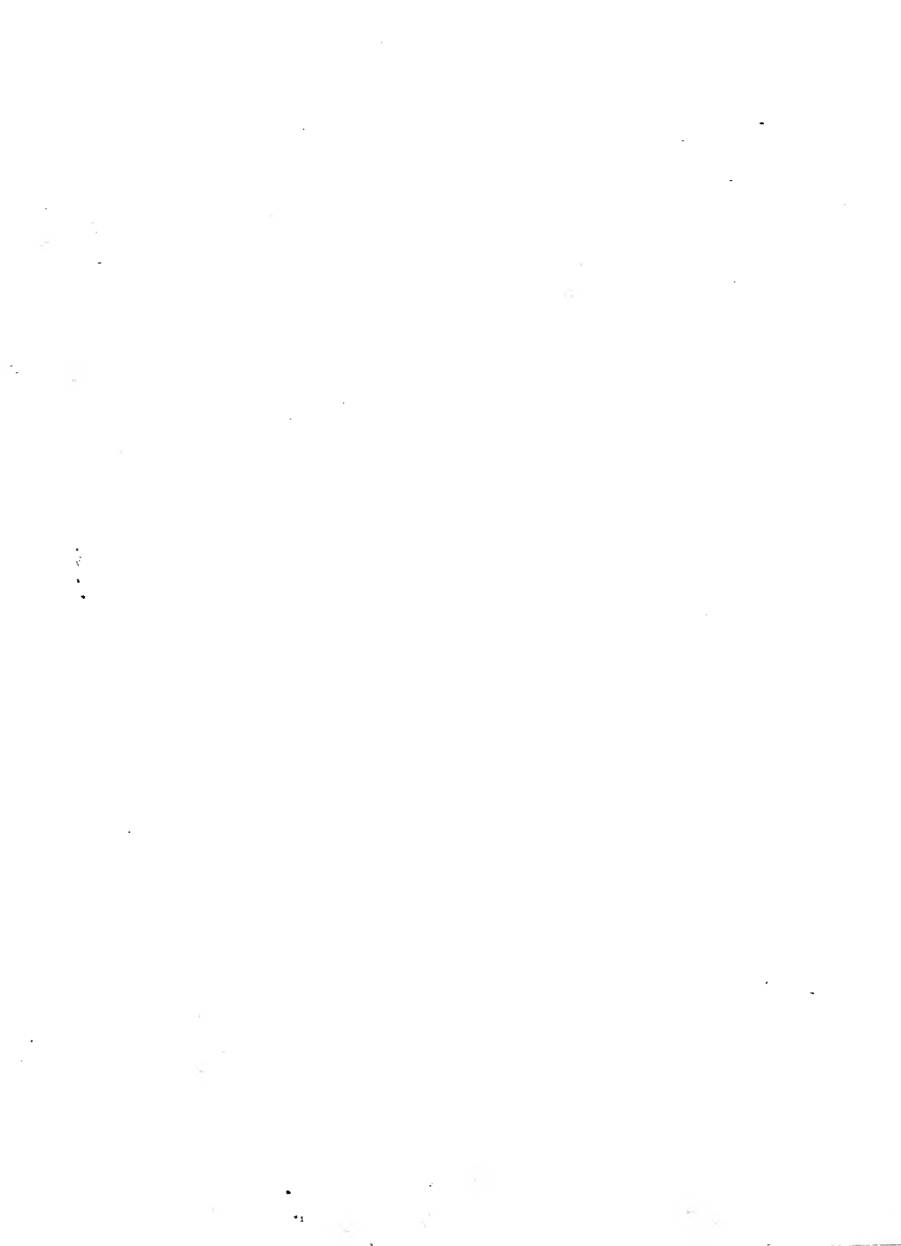
BRIGHT STAR INDUSTRIES

Subsidiary of Kidde, Inc.

KIDDE

600 GETTY AVENUE, CLIFTON, NJ 07015

NJ: 201-772-3200 NY: 212-563-5792



Master

CHAINS and CHAIN & LOCK SETS



STRONGER THREE WAYS

MASTER's rugged security chain has case-hardened steel surface to resist cutting, and tough malleable steel core to guard against breaking. Welded steel links provide strong protection against prying.

MEDIUM-WEIGHT



No. 73 (3 ft.) No. 75 (4 ft.) No. 74 (6 ft.)

$\frac{3}{8}$ " welded steel chain. Case-hardened, zinc plated. Flexible vinyl protective cover.

SUPER-SECURITY

The extra strength of alloy steel!



No. 93 (4 ft.) No. 94 (6 ft.)

$\frac{3}{8}$ " welded alloy steel chain. Case-hardened, zinc plated. Flexible vinyl protective cover.

HEAVYWEIGHT



No. 83 (4 ft.) No. 84 (6 ft.)

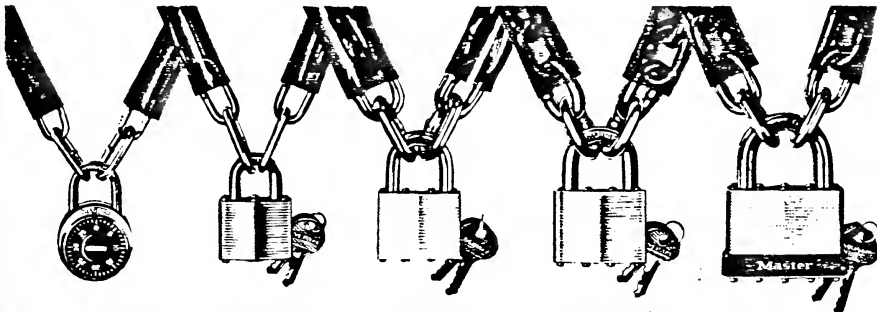
$\frac{3}{8}$ " welded steel chain. Case-hardened, zinc plated. Flexible vinyl protective cover.



No. 95 (4 ft.) No. 96 (6 ft.)

$\frac{3}{8}$ " welded alloy steel chain. Case-hardened, zinc plated. Flexible vinyl protective cover.

CHAINS ABOVE SHOWN HALF ACTUAL SIZE



No. 1573 (green) 4 ft.
No. 1574 (green) 6 ft.

$\frac{3}{8}$ " case-hardened steel chain with MASTER No. 1500 combination padlock, featuring $1\frac{1}{2}$ " wide stainless steel case, automatic locking, case-hardened shackle.

No. 373 (green) 3 ft.
No. 375 (green) 4 ft.
No. 374 (green) 6 ft.

$\frac{3}{8}$ " case-hardened steel chain with MASTER No. 3 padlock, featuring $1\frac{1}{2}$ " wide laminated steel case, pin tumbler cylinder, case-hardened shackle that locks on both sides.

No. 183 (blue) 4 ft.
No. 184 (blue) 6 ft.

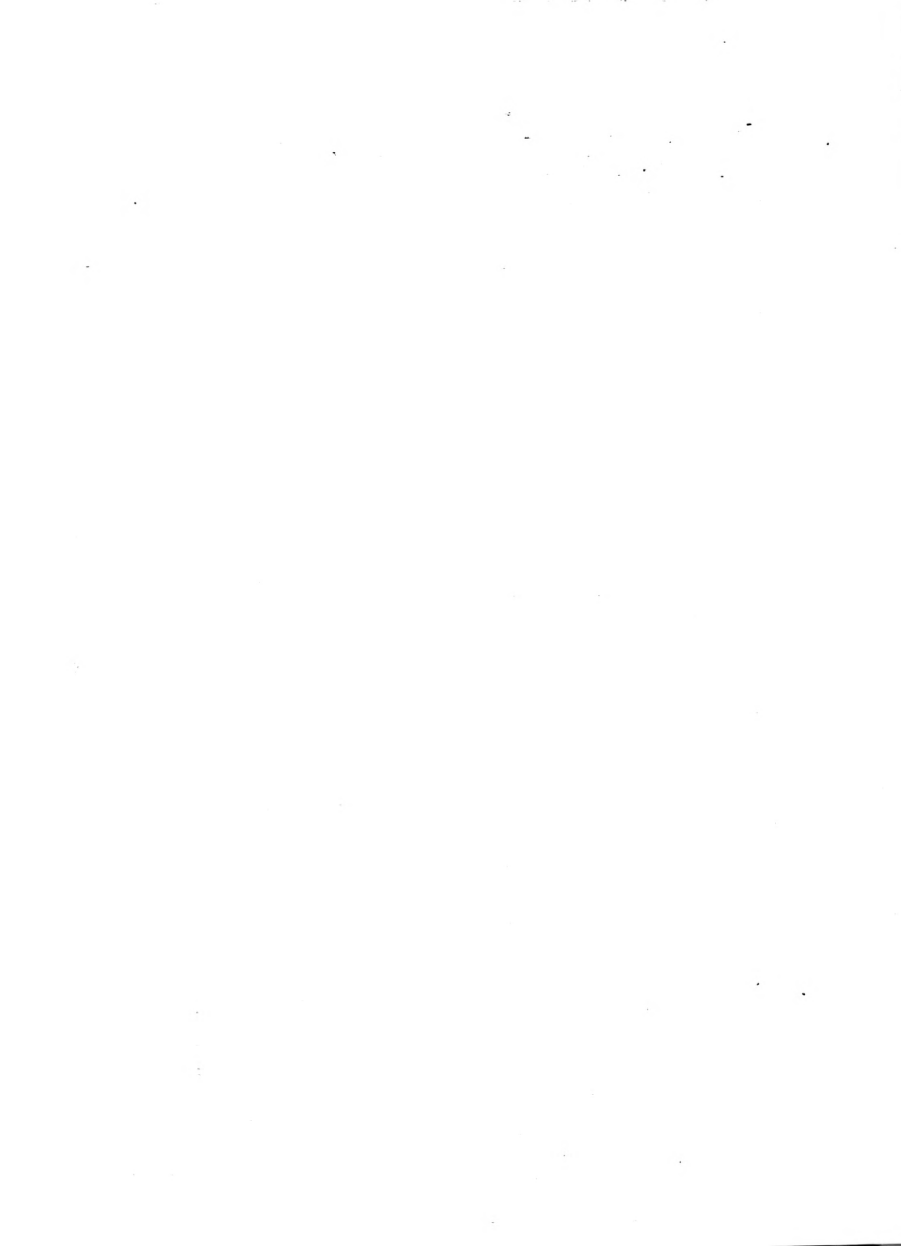
$\frac{3}{8}$ " case-hardened steel chain with MASTER No. 1 padlock, featuring $1\frac{1}{2}$ " wide laminated steel case, pin tumbler cylinder, case-hardened shackle that locks on both sides.

No. 593 (gold) 4 ft.
No. 594 (gold) 6 ft.

$\frac{3}{8}$ " case-hardened alloy steel chain with MASTER No. 5 padlock, featuring 2" wide laminated steel case, pin tumbler cylinder, case-hardened shackle that locks on both sides.

No. 1593 (gold) 4 ft.
No. 1594 (gold) 6 ft.

$\frac{3}{8}$ " case-hardened alloy steel chain with Master No. 15 padlock, featuring $2\frac{1}{2}$ " wide laminated steel case, 5 pin tumbler cylinder, case-hardened shackle that locks on both sides.

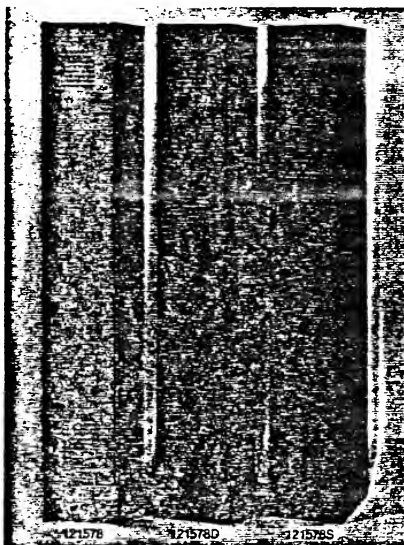


LOCKERS

Equipto lockers feature a secure, yet stylish approach to storage. All units provide exceptional quality: durable construction, attractive styling and lock-in protection.

For long-wearing, serviceable lockers, Equipto pays strict attention to important detail. Just examine the door: angle-reinforced, box frame construction and individual padlock hasps and lock holes provide effective protection against pilferage. A full 150 degree opening allows convenient access to the locker interior, while a spring-loaded catch provides secure closure under the most stressful conditions. Clearly it's the strongest locker door in the field. All Equipto lockers are made of the highest quality steel, designed with smooth, non-snap surfaces and graceful contours. Rubber bumpers absorb noise and shock. Single and double-tier models are supplied with damage-resistant, recessed handles.

Note: Lockers are sold as starter or add-on units. A row of 5 units requires 1 starter and 4 add-on units. For the sake of simple assembly, using more than 9 add-ons for each starter is not recommended.



Single-Tier Lockers

Catalog No Starter	Catalog No Add-on	Width	Depth	Opening	Height	Overall
121266	121266A	12"	12"	60"	66"	
121566	121566A	12"	15"	60"	66"	
121866	121866A	12"	18"	60"	66"	
121278	121278A	12"	12"	72"	78"	
121578	121578A	12"	15"	72"	78"	
121878	121878A	12"	18"	72"	78"	
151578	151578A	15"	15"	72"	78"	
151878	151878A	15"	18"	72"	78"	
152178	152178A	15"	21"	72"	78"	
181878	181878A	18"	18"	72"	78"	
182178	182178A	18"	21"	72"	78"	

Double-Tier Lockers

121278D	121278DA	12"	12"	36"	78"
121578D	121578DA	12"	15"	36"	78"
121878D	121878DA	12"	18"	36"	78"

Multiple-Tier Lockers

Units 66" high contain 5 locker openings; those 78" high contain 6.

121566F	121566FA	12"	15"	12"	66"
121578S	121578SA	12"	15"	12"	78"

Locks

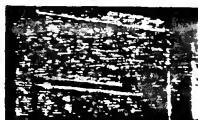
10405	Flat Key Lock	10405M	Master Key
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Number Plates

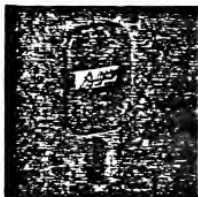
13013	Numbers 1 to 500 are in stock; other numbers are available on special order. Please indicate the numbers desired.
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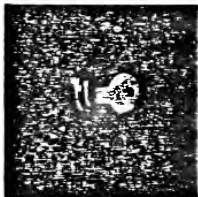
Interior of the 12" and 15" deep, single-tier locker.



Interior of the 18" and 21" deep, single-tier locker.



Recessed handles supplied on single and double-tier lockers.



Flat key locks install easily for added locker security.

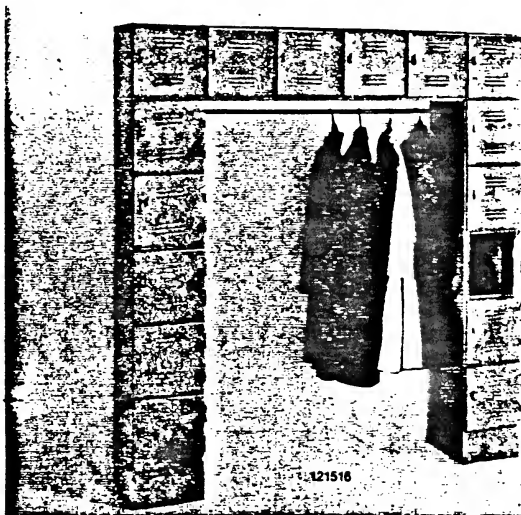


Easy-to-read number plates for quick locker identification.

Equipto-Robe—the industry's most innovative locker system. Maximum storage in a minimum amount of space. Ideal for institutional, industrial and recreational purposes.

Equipto-Robe provides storage for 16 people in 6' of space. 16 spacious compartments (12"x12"x15") with a 4" coat rod fit neatly into a 6'x6 1/2" area. Double-louvered doors with padlock hasps provide secure, ventilated storage space. Equipto-Robe's exclusive positive latches function with or without a lock. These units are easily transported for use individually or in groups to form aisles or to separate sections. With smooth, rounded lines and baked enamel finish.

Catalog No	Description
121516	Equipto-Robe, 78"Hx72"Wx15"D
10405	Flat Key Lock
13013	Number Plate, Stocked 1-500



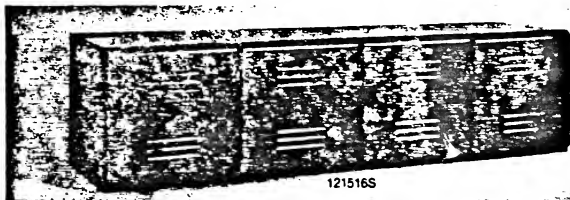
Wall Mount Lockers

Increase storage capacity and exploit space: 4-unit lockers can be set on counters, cabinets; mounted easily over desks, benches and machinery.

The Center section of the Equipto-Robe for modular use in a variety of ways. Rugged, and very functional.

121516S

Wall Mount Unit



Sloping Tops for Lockers

For a handsome, built-in look, add sloping tops to locker assemblies. Keeps lockers clean and neat for a pleasingly uniform appearance by keeping objects off tops. Tops coordinate with all Equipto lockers and may be installed at any time. Available in one- and three-locker widths.

Catalog No	Width	Depth	Height
11350A	12"	12"	7"
11351A	36"	12"	7"
11352A	12"	15"	8 1/4"
11353A	36"	15"	8 1/4"
11354A	12"	18"	10 1/4"
11355A	36"	18"	10 1/4"
11356A	15"	15"	8 1/4"
11357A	45"	15"	8 1/4"
11358A	15"	18"	10 1/4"
11359A	45"	18"	10 1/4"
11360A	15"	21"	12 1/4"
11361A	45"	21"	12 1/4"
11362A	18"	18"	10 1/4"
11363A	54"	18"	10 1/4"
11364A	18"	21"	12 1/4"
11365A	54"	21"	12 1/4"



Stock color office gray. See page 3 for other colors.

ELEVATOR — QUICK HEIGHT POSITIONING FOR PERSONNEL, TOOLS AND MATERIALS

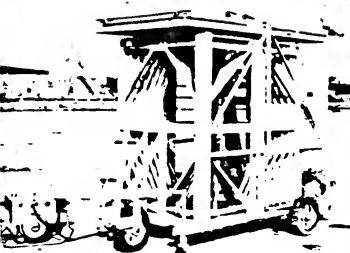
- ☐ The result of years of research and testing.
- ☐ Performance proven the world over.
- ☐ Offers versatility, mobility, safety and strength without weight to solve 90% of your off-the-ground problems.
- ☐ Cuts downtime, adds new profits!

MODEL D-M-055 IN
ELEVATED POSITION
Unit is completely
compact with handles in
storage position.

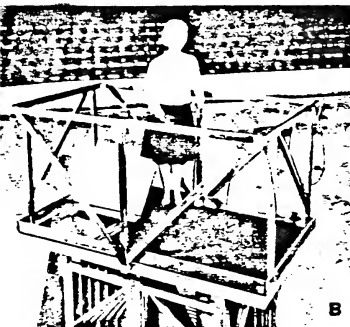
MODEL D-M-055 IN
TELEVATOR IN DOWN POSITION
Unit is completely
compact with handles in
storage position.



- A STABLE work platform providing large work area without whipping effect.
- ONE MAN ERECTION AND USAGE. No tie-up of entire crew for scaffolding erection.
- COMPACT. No time and space consuming storage problem. Unit is always in one piece, no parts to become lost or forgotten.
- SAFE USAGE OF TELEVATOR IS MANDATORY by unit's design. Safety rails and toe boards are quickly and easily operated.
- WEATHER RESISTANT — can be used and left outside until job is completed.
- ELEVATES AND LOWERS personnel, tools and materials with a minimum of effort and manpower. No need for continual build-up and take-down.
- MOBILITY — unit is designed to load in standard size pickup truck for transportation to work site. It can also be clamped to truck bed and used as a mobile unit, increasing its range of application.
- LOW MAINTENANCE COST — high quality of component parts and workmanship, design simplification, and mass produced nationally distributed and serviced power unit (bearing a one-year warranty on workmanship and parts) insures against expensive downtime and repairs.
- OPERATES ANYWHERE — 110-volt single phase unit is standard power equipment. However, all standard A.C. voltage and phase combinations are available.
- STABILITY — four-corner cable suspension provides increased safety factor. TELEVATOR cables are semi-concealed. Positive safety.
- LIGHTEST WEIGHT UNIT — based on cost per square foot of work area.
- ALL BOLTED OR SCREWED CONSTRUCTION for greater serviceability. No welded joints.
- BALL BEARING SHEAVE UNITS are plug in type, pre-greased and sealed.
- CORNER COLUMNS are actually keyed one into the other at all times.
- INSTANT HEIGHT ADJUSTMENT — no more "just short of reaching" or climbing down to a lower level. No time wasting dismantling to pass rig under trusses or doorways. Eliminates rebuilding of scaffolding on other side of obstructions.
- ALUMINUM PLUSES include improved appearance and long life, features of special interest where units are used in public buildings.
- FIRST SUCH UNIT TO MEET WITH CONTRACTORS' APPROVAL AND USE due to large work platform combined with low weight factor. This equipment is no longer relegated to maintenance field only. It impresses the contractor's customer as a real performer. It makes the contractor more competitive on the bid sheet and lights the customer's eye on time and material jobs.



A



B

SELECT FROM THESE REYNOLDS TELEVATOR UNITS

UNIT MODEL	MAX. PLAT-FORM HEIGHT	PLAT-FORM CAPACITY	PLATFORM WORK AREA	PLATFORM HEIGHT DOWN POSITION	WEIGHT UNCRATED	CLEARANCE LENGTH AND HEIGHT
8" CASTERS						
15 CMO	15 ft.	800 lbs.	32" x 80"			
20 BMO	20 ft.	800 lbs.	32" x 80"	6' 9 3/4"	1020 lbs.	34 3/4" x 96"
20 AMO	20 ft.	800 lbs.	48" x 85"	6' 9 3/4"	1100 lbs.	48" x 96"
25 BMO	25 ft.	800 lbs.	32" x 80"	6' 9 3/4"	1140 lbs.	34 3/4" x 96"
25 AMO	25 ft.	800 lbs.	48" x 85"	6' 9 3/4"	1210 lbs.	48" x 96"
30 AMO	30 ft.	800 lbs.	48" x 85"	6' 9 3/4"	1320 lbs.	48" x 96"
35 (S)AMO	35 ft.	800 lbs.	48" x 85"	6' 9 3/4"	1475 lbs.	48" x 96 3/4"
10" CASTERS						
40 DMO	40 ft.	600 lbs.	44" x 80"	7' 11 1/2"	1580 lbs.	50 3/4" x 108"
45 DMO	45 ft.	600 lbs.	44" x 80"	7' 11 1/2"	1650 lbs.	58 1/4" x 108"
50 DMO	50 ft.	500 lbs.	40" x 80"	8' 8 3/4"	1800 lbs.	58 1/4" x 108"
55 DMO	55 ft.	500 lbs.	40" x 80"	9' 3 3/4"	1900 lbs.	58 1/4" x 108"
60 DMO	60 ft.	500 lbs.	40" x 80"	9' 3 3/4"	2050 lbs.	58 1/4" x 108"

Tow Tongue is standard equipment on all D-M-D units.

- All handrails meet safety requirements
- Lifting jacks and spirit levels standard on all units.

OPTIONAL MODIFICATION EQUIPMENT

Electrically Insulated Platform Platform covered with 1/4" thick, Type A.S.T.M. switchboard rubber matting. Safety hand rails and toe boards fabricated from select and moisture control treated Ash. The dimensions of the safety hand rails are 1 1/8" x 2". All stress points of these safety hand rails are reinforced with cadmium plated metal clips and plates.

Power Supply Cord To replace the standard 10 foot length of power supply cord with 100 foot of No. 12 - 3/cond. - Type SO cord, complete with storage hangers on unit.

Base Frame Safety Enclosure Base frame section enclosed with removable panels of "Expanded Aluminum" flattened - 3/4" x .081 (light).

Casters Polyurethane heavy duty wheels optional on all models. They wear 4 times longer than most other wheel materials, resist abrasion, slippage, most acids, dry heat and cold.

Tricycle Type Running Gear Wheels 16" x 4.00 Tenn-A-Flex. This is a solid tire (Puncture proof) permanently bonded on a cast aluminum core. Tire has a hardness of 40 on a type "A" Shore Durometer, allowing it to absorb shock and roll easily over bumps. Two of these wheels shall be employed on a fixed axle. One of these wheels shall form a swivel caster having a pulling tongue for steering. Optional on all models.

Rotating Warning Lights (2) 110 Volt electricity. When unit is plugged in lights automatically start rotating, 1 in front and 1 in rear. Mounted on brackets. Optional on all models.

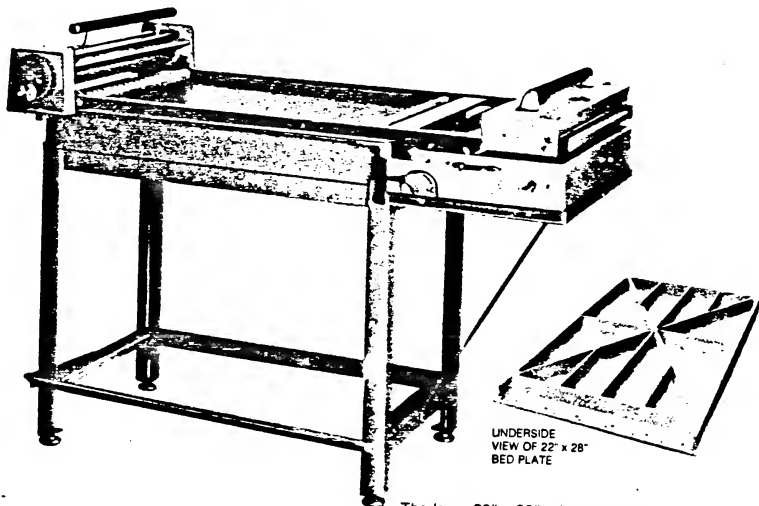
Power Supply If an alternate 3 phase - 208, 220 or 440 Volt power unit is selected, the power unit includes phase rotation protection and a means of correcting wrong rotation, at the unit, as required. Optional on all models.

Tongue A combination manual pulling and power tow tongue, which swings up to a vertical position and latch, when not in use.

Electric Instant Inker

MI 2228

Prints signs up to 22" x 28"



Complete Unit Includes:

36 pt. (%) #604 Caps & Figs - 6A Font
36 pt. (%) #604 Lowercase - Two 7a Fonts
60 pt. (%) #607 Caps & Figs - 6A Font
60 pt. (%) #607 Lowercase - Two 6a Fonts
72 pt. (%) #607 Caps & Figs - 6A Font
10 line (1½") #487 Caps - 3A Font
10 line (1½") #487 Lowercase - 3a Font
10 line (1½") #487 Figures
12 line (2") #487 Caps - 3A Font
12 line (2") #487 Lowercase - 3a Font
12 line (2") #487 Figures
18 line (3") #851 Caps - 3A Font
18 line (3") #851 Figures
two type trays

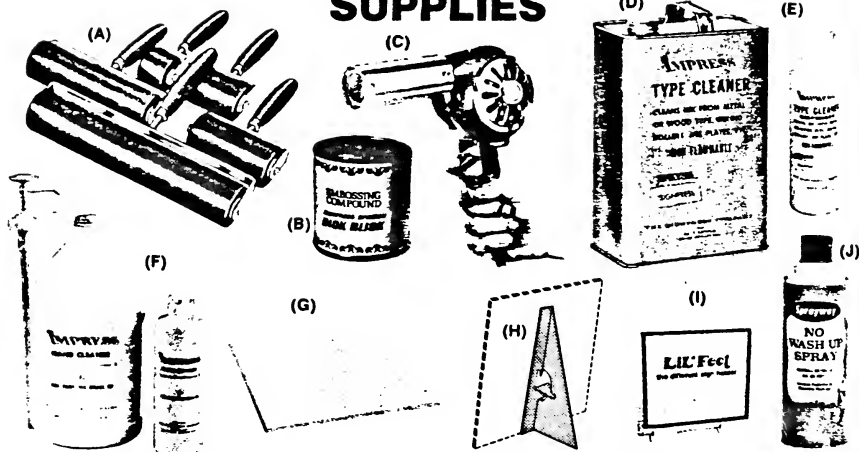
Unit includes all the same supplies
as listed for MH2228 (page 8).

The large 22" x 28" printing capacity of this machine, plus the electric instant inking mechanism combine to make this a masterful piece of equipment. Instant Inking assures even ink coverage; and many users report a 35-40% time savings over hand inking.

Both the MH2228 and the MI2228 have a fabricated steel bed plate that is reinforced to prevent any warpage or distortion. (See above.) The bed surface is precision ground to exact tolerances, assuring a flat and even printing surface. This method of construction is used on all our larger machines, starting with the MI1426 Instant Inker.

Included with the MI2228 is the movable type and supply storage cart described on the opposite page.

SUPPLIES



(A) NEOPRENE INKING BRAYERS

Excellent value. Impervious to nearly all inks and cleaners. 1½" diameter rollers. Comfortable wood handles.

245901 1" Wide	245905 5" Wide
245902 2" Wide	245933 6" Wide
245903 3" Wide	245906 8" Wide
245904 4" Wide	

(B) EMBOSSEMENT COMPOUND

For an extra special effect, sprinkle embossing powder over the surface of your freshly printed sign, tap the excess off, and heat it with a heat gun or place it in the oven. The compound melts and gives a raised, shiny, plastic-like appearance to the letters. ¼-lb, 1-lb, 5-lb cans in gold, silver, and clear.

1535400 ¼-lb Gold	1535700 ¼-lb Silver
1535401 1-lb Gold	1535701 1-lb Silver
1535405 5-lb Gold	1535705 5-lb Silver

1535600 ¼-lb Clear
1535601 1-lb Clear
1535605 5-lb Clear

(C) FLAMELESS HEAT GUN

For melting embossing compound or bending plastic. Heats to 500°. 50/60 cycle AC, 115 V, 12 amp 3-wire cord with plug and adapter for 2-prong. Has base plate for stationary hold. UL approved.

3335000

(D) NON-FLAMMABLE TYPE CLEANER

Evaporates immediately, leaves no oily film. So effective a little goes a long way. For use with oil and plastic inks.

1537200 Gallon

(E) PLASTIC SQUEEZE BOTTLE

Empty 8-oz size bottle with flip-up spout is very handy for dispensing type cleaner.

1533700

(F) IMPRESS HAND CLEANER

Lotion-type waterless cleaner is mild and soothing to the skin. Contains no grit, has lanolin and bacteriostat 70. For removing ink, paint, grease, tar, and other stains. Unbreakable plastic containers — pint size with flip-up spout; gallon size with plunger dispenser.

224200 Pint

224300 Gallon

(G) INK PLATEN

Made of laminated plastic, easy to clean, impervious to inks and cleaners. Provides a smooth even surface to properly roll out ink with brayer. Large enough to use two or more colors at once.

1532500 11¾"x15¾"

(H) CHIPBOARD LOCKING EASELS

Made of sharply die-cut heavy pressed chipboard. Locks tight when opened, folds flat. Easily attached with tape or glue.

471004 4" High	471012 12" High
471006 6" High	471018 18" High
471008 8" High	471024 24" High
471010 10" High	

(I) LIL' FEET SIGN HOLDERS

Simply slide your sign into the grooves. Use the self-sticking adhesive strips and your Lil' Feet adhere to any smooth surface. Sold in Pairs.

1536100

(J) NO WASH-UP SPRAY

For use with Instant Inking machines to keep ink from setting up too fast. Also can be used to spray the platen overnight to eliminate daily cleaning.

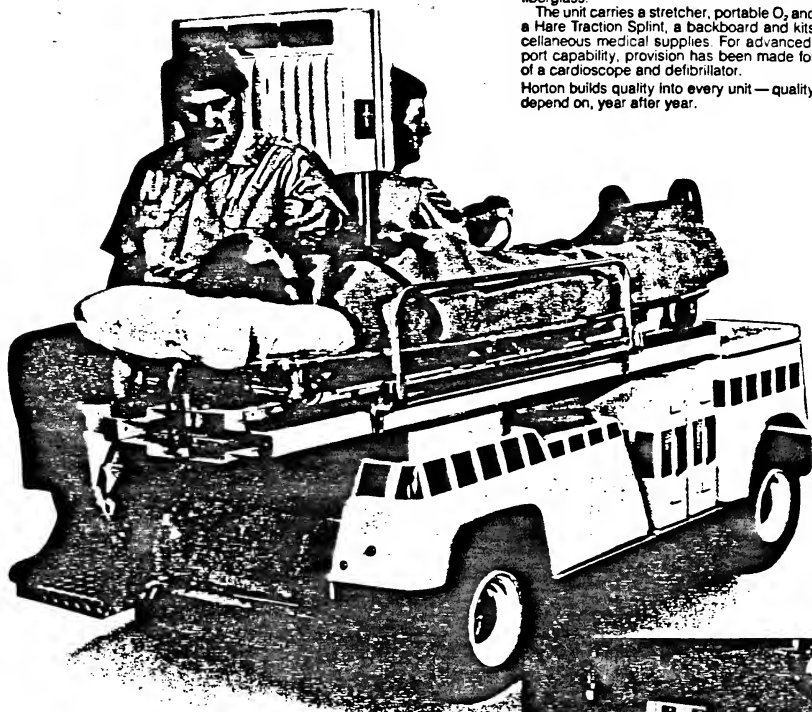
1537300

M/R 10^{FA}

The Horton M/R 10 is a compact medic/rescue vehicle designed to provide a quick means to get professional help to accident victims and provide fast transport from accident scenes. The M/R 10 is ideal for industrial, athletic, airport, theme parks and many other applications. Available with a gasoline engine or electric motor, the vehicle is built of tough, durable fiberglass.

The unit carries a stretcher, portable O₂ and suction, a Hare Traction Splint, a backboard and kits for miscellaneous medical supplies. For advanced life support capability, provision has been made for storage of a cardioscope and defibrillator.

Horton builds quality into every unit — quality you can depend on, year after year.





THE HORTON M/R10 ELECTRIC MODEL EQUIPMENT & FEATURES

CHASSIS: By Yamaha Motor Corporation, U.S.A.; Golf Car Division.

WHEELBASE: 61"

OVERALL DIMENSIONS: 106" long x 46" wide x 67 1/2" high.

PERFORMANCE: Governed maximum speed of 12 MPH.

TURNING RADIUS: 9' 10"

DRIVE SYSTEM: Direct drive mechanism with 36 volt DC series engine develops 27 HP at 2600 RPM.

BATTERIES: (6) six volt batteries with stationary mount battery charger.

TRANSMISSION: Double reduction helical gear 13.47:1 with direct drive motor axle.

FRAME: Steel ladder-type tube frame.

BRAKES: Mechanical brake linkage to individual drum brakes on each rear wheel. Parking brake with automatic release.

STEERING: Worm-gear type.

TIRES: Four tires size 16 x 6.50-8.00 tubeless.

SUSPENSION: Front and rear suspension coil springs and hydraulic shock absorbers. Rear springs: custom heavy-duty type for ambulance use.

GVW: 1400 lbs.

BODY: Molded fiberglass body specifically designed for ambulance use. The front cowel area includes a bulk storage compartment 12 1/2" wide x 21" long x 13 1/2" deep for medical supply storage. In addition, a general defibrillator compartment 14" wide x 20 1/2" long x 4" deep is provided for miscellaneous supplies or a defibrillator monitor. Both compartments are covered with fiberglass side attached by piano hinges. The floor of each storage area is provided with ribbed rubber matting, removable for cleaning.

PAINT: White with a Scotchblue reflective orange band around the beltline.

SEATS: (2) padded vinyl type bucket seats with tubular chrome retainer type armrests.

One seat front-facing for the driver and the other rear-facing for the medical attendant, positioned to easily monitor the patient on the stretcher. The rear attendant seat is provided with an aluminum diamond plate footrest. Both seats have foam padded headrests.

STRETCHER PLATFORM: Right side of vehicle includes aluminum platform suitable for retaining (1) Ferno-Washington 107-C stretcher chair. Unit permits loading of the patient from front, side or rear. Posts and wheels of stretcher held in full length oak lined aluminum channels for safety. Stretcher attached to platform by means of spring loaded, manual locking mount and retainer hook at front and rear. Platform attached to permit tilting of the rear body cowel for service without removing either stretcher or platform. Ferno Washington 107-C stretcher chair furnished with vehicle.

PATIENT BLANKET: Patient stretcher is equipped with one Ferno Washington #366 cot pillow and one Ferno Washington #351 washable blanket.

BACKBOARD STORAGE: Storage provided within stretcher platform for one adult wooden backboard 16" x 75" with three (3) retaining straps. Backboard is furnished and is retained by stretcher chair mount.

HARE TRACTION SPLINT STORAGE: One Hare traction splint provided with storage under backboard.

MEDICAL KITS: Vehicle includes two medical cases stored beside driver under stretcher platform, accessible from the right side of vehicle. Each case is approximately 18" long x 13" wide x 6" deep.

RESUSCITATOR/ASPIRATOR: One Robert Shaw 900-002-175-01 portable resuscitator with oxygen powered aspirator. Unit includes demand valve with adult mask, 8 ft. of hose, oxygen powered suction unit with 8 ft. of hose and suction catheter, a regulator with dual outlets to administer oxygen on demand or constant flow at 2, 4, 6, 10, or 15 LPM increments. Sturdy molded carrying case which holds two airways, cylinder hand wheel, and 10" size cylinder. Resuscitator/aspirator stored at rear of vehicle for quick removal to accident scene or for onboard use with patient.

PATIENT LIGHT: Mounted on inboard side of light bar is one chrome adjustable swivel-type patient light, controlled by lighted rocker switch within easy reach of attendant. Light has manual reset circuit breaker housed behind hinged panel in light bar.

AUDIBLE WARNING SYSTEM: Electrically controlled audible warning system with controls within easy reach of driver.

SIGNAL LIGHTING: Two red and one white forward facing strobe warning lights controlled by lighted rocker switch under light bar console. To provide warning to the rear of the vehicle, three red incandescent lights wired to solid state flasher. Lights are controlled by lighted rocker switch on light bar console separate from strobe switch. All emergency light outputs provided with individual manual reset circuit breakers. Breakers mounted behind control panel in light bar for easy service access.

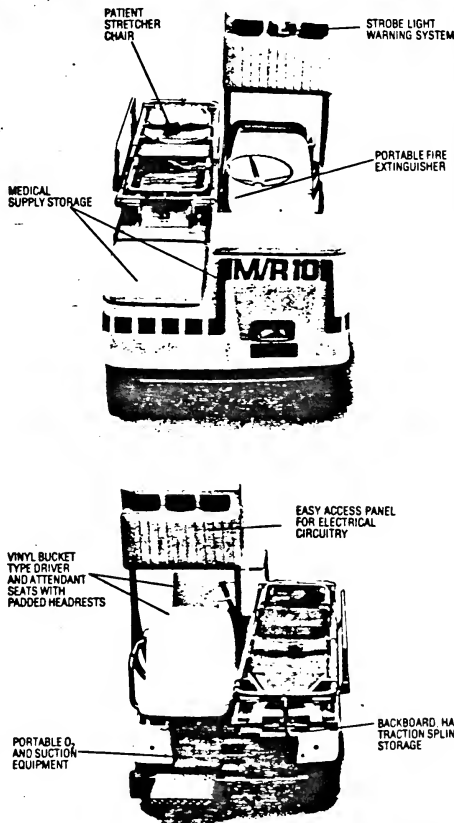
BATTERY CHARGER INLET: One electrical inlet wired to battery system. Easy hook-up to a battery charger without tilting rear body section.

FIRE EXTINGUISHER: One 5 lb. ABC dry chemical fire extinguisher mounted for easy access by driver.

GASOLINE MODEL

BATTERY: One twelve volt, 50 amp hour battery.

DRIVE SYSTEM: Powered by reversible 2-cycle gasoline engine with automatic oil injection. Engine capable of operating on straight unlead gasoline.



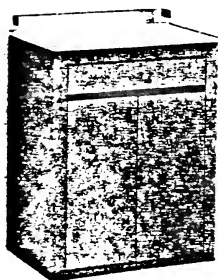
Get the dealer in your area—call or write:

HORTON INDUSTRIES/500 INDUSTRIAL MILE ROAD, COLUMBUS, OHIO 43228/614-272-8181



Cabinets and Accessories — CONCEPT 2

FA-2



#77



#78



#97



#87

#77 Treatment Cabinet - with Formica edged and covered work surface - plus stainless steel guard rail. One wide drawer on ball bearing nylon rollers - large double door storage compartment with shelf - threaded floor glides included. Size: 18" deep x 25-5/8" wide x 33 3/4" high.

#78 Combination Cabinet - a #77 Cabinet with an upper section attached at factory. Upper section has two glass paneled doors - adjustable glass shelf. Size: 18" deep x 25-5/8" wide x 61" high.

#97 Waste Receptacle - heavy gauge enameled furniture steel, 10" x 10" x 24" high - with satin chrome concave open style removable top.

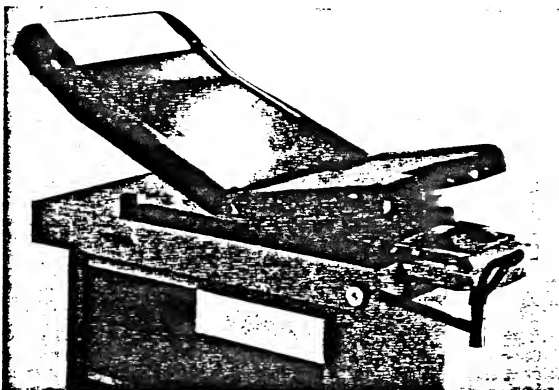
#87 Operator's Stool, 19" - 26" adjustment, vacuum formed upholstered seat, 4-leg cast base with 2" ball bearing casters. See Page 7.

CONCEPT 2 additional examining tables

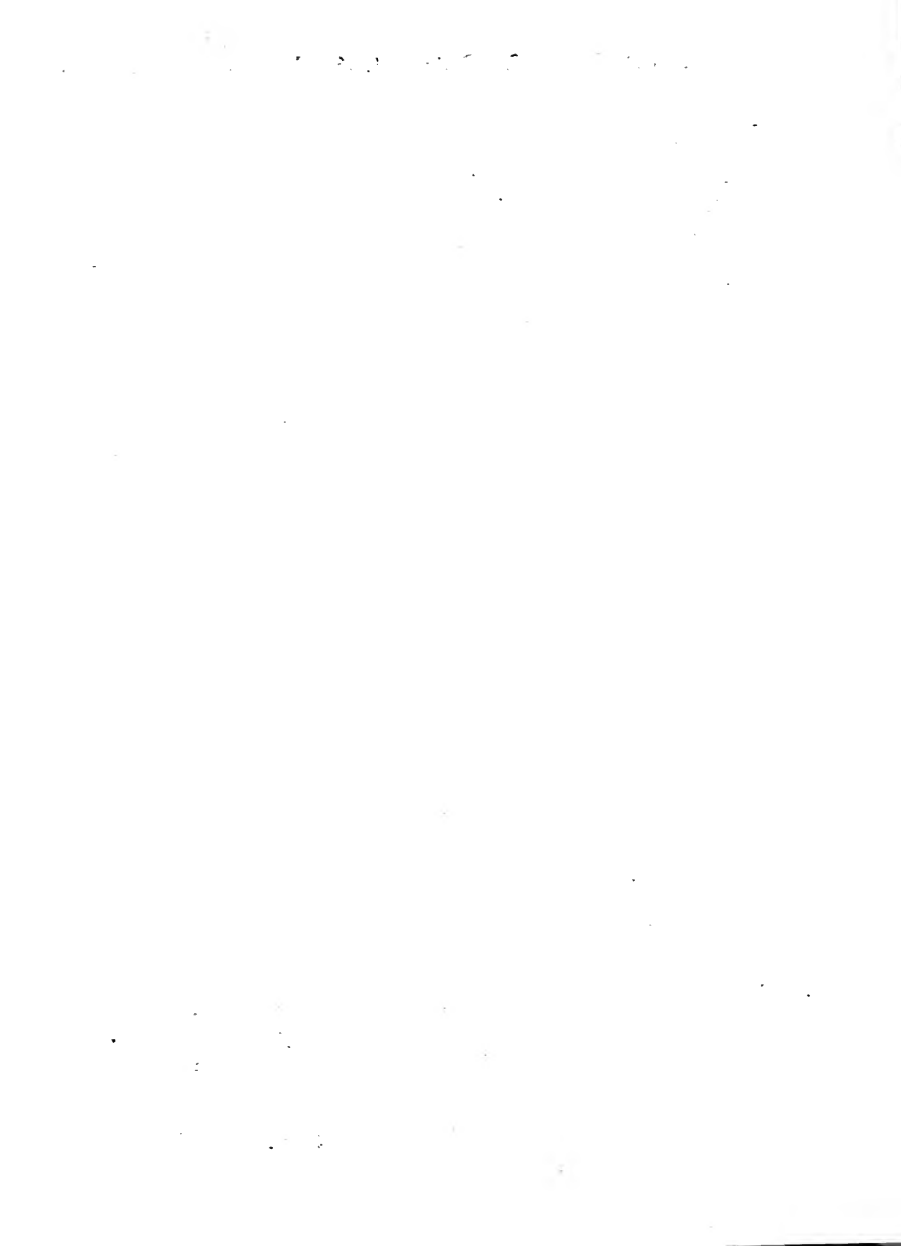
#36 Examining Table, same as #20, except base unit has open shelf, no step and no instrument warmer Suite D-2

#37, Same as #36, except with only two electrical outlets. No utility shelves Suite E-2

#38, Same as #37, except with no electrical outlets and only one back lock release lever. Suite F-2



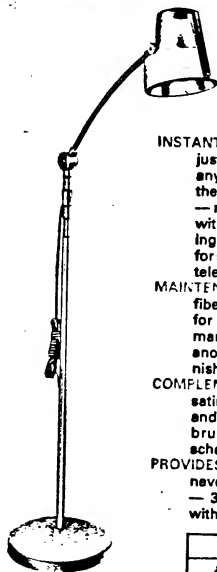
#36



NIGHTINGALE DELUXE EXAMINING LAMPS

**OVER 12 TIMES THE LIGHT OF AN ORDINARY LAMP
USING THE SAME BULB!**

**UP TO 4,000 FOOTCANDLES OF BRILLIANT LIGHT WITH A STANDARD,
INEXPENSIVE 100 WATT HOUSEHOLD BULB THAT IS ALWAYS READI-
LY AVAILABLE — NO SPECIAL PROJECTOR-TYPE BULB REQUIRED —
RELAMPING IS NEVER A PROBLEM.**



MODEL 431

Horizontal Reach: 25 inches
Shade: 7 1/4" diameter x 7 3/4" high.
Base: 14 pounds, 1 1/2" diameter.
Rugged, positive action toggle
switch.
10 foot, 3-wire grounding cord set.
Hospital Grade Wiring Optional
— see page 4 —

INSTANT LIGHT ANYWHERE: Universally ad-
justable — direct the light at any angle, in
any position from 2 feet to 7 feet above
the floor. Simple, one-hand adjustment
— no wing nuts or set screws. Stays put
without sagging or slipping — all mov-
ing parts are compression-spring loaded
for smooth, positive operation — 18 inch
telescopic height adjustment.

MAINTENANCE-FREE: Unbreakable molded
fiberglass shade — spring-loaded joints
for years of trouble-free service — per-
manent finish: Satin chrome plate and
anodized aluminum — nothing to tar-
nish, fade, scratch, or chip.

COMPLEMENTS ANY DECOR: Rich, mellow
satin chrome plate, with touches of black
and white, blends with stainless steel,
brushed aluminum, or any color
scheme.

PROVIDES MORE SAFETY: Cool reflector will
never cause burns — tip-proof stability
— 3-wire grounding cord set — listed
with Underwriters Laboratories, Inc.

OPTIONAL FEATURES



**Caster Base Assembly
Model CB2**
Easy rolling casters — ef-
fortless movement. Sim-
ply yet firmly attached —
practically tip-proof. Satin
Chrome Finish.



**Wire Lamp Guard
Model 9331**
NOTE: Cannot be added
in field. Must be specified
on original lamp order.



to help meet OSHA standards



Unique, ventilated Alzac aluminum
reflector with permanent, mirror
finish is housed inside of a practically
indestructible white molded fiber-
glass shade that always stays cool.
Handy and rugged cast aluminum
handle is anodized black for a perma-
nently attractive finish.

COMPARATIVE ILLUMINATION CHART

Bulb Wattage	Footcandles at 12 inches	
	Model 431	Conventional Shade
40	600	80
60	2,000	150
75	2,500	200
100	4,000	325

Use A-19 standard household bulbs only. 60
watt size gives best balance between abundant
light and low heat radiation.

WALL-MOUNTED DELUXE EXAMINING LAMP

Exactly the same shade, reflector, and handle as described above.
Equipped with handy 3-wire grounded receptacle and Levovier pull-
chain switch in wall canopy.



MODEL 639: Overall reach, 38 inches. Universal adjustment at base
and at reflector, vertical adjustment at elbow. Solid "stops" prevent
damage to walls. Supplied with wire leads only for connection to
power supply wires in wall outlet box. (3-wire grounding cord set
available — see price list.) Optional: Wire Lamp Guard No. 9331.

SIMPLE, RUGGED MOUNTING

Heavy cast
aluminum
plate with
knockouts.



16 gauge steel
canopy — 7
diameter x
1 1/2" deep.

1. Fasten plate to outlet box in wall with
fixture stud or with screws into ears of
outlet box.
2. Make wire connections.
3. Fasten canopy and fixture to plate with
the 3 large machine screws supplied.



to help meet OSHA standards

MEET THE AJUSCO-LOC—WITH A LIFETIME GUARANTEE!



Conventional Socket
Broken, twisted wires can easily cause personal injury and costly repairs.



Ajusco-Loc Socket
The Ajusco-Loc strengthens this vital part.

The Ajusco-Loc consists of a solid cast cap, a steel ring, and three steel screws.

The solid cast cap is threaded and epoxied permanently to the fixture — eliminates set screws which frequently loosen and strip the fixture mounting threads.

Both Ajusco-Loc Models have $\frac{3}{8}$ " I.P. Female Threads.

WITH NORMAL USE, THE AJUSCO-LOC IS GUARANTEED:

- Cap will not kink or break at neck
 - Body and cap will not break apart
 - Body and cap will not twist in relation to each other
- If it should fail, a new Ajusco-Loc will be sent to you — no charge!



Model PT-AL-3: Includes Regular Ajusco-Loc and Push-Thru Socket Shell and Interior.



Model PT-RAL-3: Includes Right Angle Ajusco-Loc and Push-Thru Socket Shell and Interior.

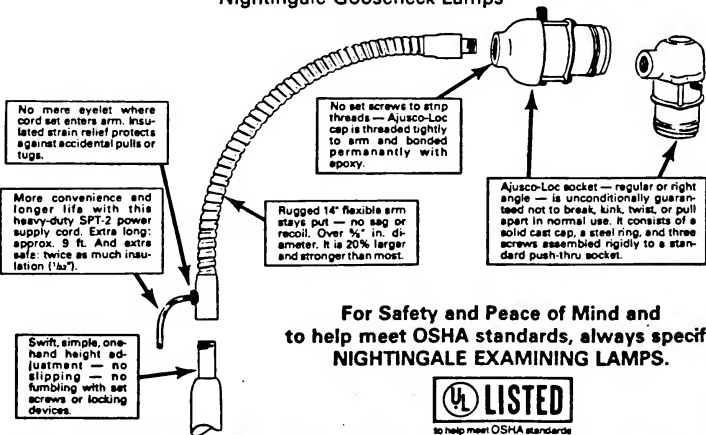
WIRING

All cord sets approximately 9 ft. out of lamp.

Choice of:

- 2-conductor SPT-2 Cord Set with molded polarized plug, having one blade wider than other. (Requires a polarized wall receptacle.)
- 3-conductor SPT-2 Grounding Cord Set with molded plug.
- Hospital Grade Wiring, 3-conductor SJT Grounding Cord Set with Hospital Grade Power Plug.

KEEP REPAIRS AND MAINTENANCE AT A MINIMUM with the following EXCLUSIVE FEATURES found on all Nightingale Gooseneck Lamps



**For Safety and Peace of Mind and
to help meet OSHA standards, always specify
NIGHTINGALE EXAMINING LAMPS.**



Nightingale-lamps are manufactured for illumination purposes in non-hazardous locations.

Available from your Medical Products Distributor:



**ADJUSTABLE
FIXTURE CO.**

Precision lighting since 1911

3726 N. Booth St.
Milwaukee, WI 53212
(414) 964-2626



Industrial First Aid Kit #50

First aid supplies for up to 50 people in a weatherproof, dust proof, rust resistant steel kit, with rounded corners and adjustable shelves. It features a separate unfilled compartment to meet individual first aid requirements. Carrying handle and wall brackets make it ideal for indoor and outdoor use. Contains comprehensive first aid booklet and wall chart.

CODE NO.	WEIGHT	SIZE	PER CASE
8150	15 lbs.	15-3/4 in. x 14-1/2 in. x 5-9/16 in.	1

Industrial First Aid Kit #25

First aid supplies for up to 25 people in a weatherproof, dust proof, rust resistant steel kit, with rounded corners and adjustable shelves. It features a separate unfilled compartment to meet individual first aid requirements. Carrying handle and wall brackets make it ideal for indoor and outdoor use. Contains comprehensive first aid booklet and wall chart.

CODE NO.	WEIGHT	SIZE	PER CASE
8125	12 lbs.	15 in. x 10-3/4 in. x 4-7/8 in.	1

STANDARD Industrial First Aid Kit

First aid supplies for 15-20 people in a weatherproof, dust proof, rust resistant steel kit, with rounded corners. Carrying handle and wall brackets make it ideal for indoor and outdoor use. Contains comprehensive first aid booklet and wall chart.

CODE NO.	WEIGHT	SIZE	PER CASE
8115	5-1/2 lbs.	12-15/16 in. x 9-1/4 in. x 2-1/2 in.	3

Industrial First Aid Kit #10

First aid supplies for up to 10 people in a weatherproof, dust proof, rust resistant steel kit, with rounded corners. Carrying handle and wall brackets make it ideal for indoor and outdoor use. Contains comprehensive first aid booklet and wall chart.

CODE NO.	WEIGHT	SIZE	PER CASE
8110	3-5/8 lbs.	8-15/16 in. x 9-1/2 in. x 2-11/16 in.	6

EMERGENCY First Aid Kit

First aid supplies for 5-10 people in a rust resistant steel kit. Ideal for indoor use, the Kit has a carrying handle for portability and brackets so that it can be wall-mounted. Contains comprehensive first aid booklet and wall chart.

CODE NO.	WEIGHT	SIZE	PER CASE
8116	2-3/4 lbs.	10-1/2 in. x 7-5/8 in. x 2-1/8 in.	12

J-KIT First Aid Kit

First aid supplies for up to 6 people in a weatherproof, dust proof, rust resistant steel kit with rounded corners. Carrying handle and wall brackets make it ideal for indoor and outdoor use. Contains comprehensive first aid booklet and wall chart.

CODE NO.	WEIGHT	SIZE	PER CASE
8104	2-3/4 lbs.	8 in. x 5 in. x 2-5/8 in.	12

Products bearing the RED CROSS Trademark have no connection whatever with the American National Red Cross.



Industrial First Aid Kit Contents

UNIT CODE	CONTENTS DESCRIPTION	QUANTITY PER FIRST AID KIT					
		J-KIT #8104	EMER- GENCY KIT #8118	NUMBER 10 #8110	STAN- DARD #8115	NUMBER 25 #8125	NUMBER 50 #8150
5604	BAND-AID® Brand Adhesive Bandages, 3/4 in.	20	50	50	50	80	100
8520	STERI-PAD® Sterile Pads, Small, 2 in. x 2 in.		10			10	10
8522	STERI-PAD® Sterile Pads, Medium, 3 in. x 3 in.	3	2	10	10	10	10
8524	STERI-PAD® Sterile Pads, Large, 4 in. x 4 in.				10	10	20
8806	JOHNSON & JOHNSON Flexible Gauze Bandage 1 in. x 126 in. (3.5 yds.)		2			2	3
8807	JOHNSON & JOHNSON Flexible Gauze Bandage 2 in. x 126 in. (3.5 yds.)	1	2	1	2	2	2
8809	JOHNSON & JOHNSON Flexible Gauze Bandage 4 in. x 126 in. (3.5 yds.)	1		1	1	1	1
4831	DERMICEL® First Aid Tape, 1/2 in. x 180 in. (5 yds.)	1	1	1	1	2	4
8056	JOHNSON & JOHNSON First Aid Cleansing Wipes		8		10	10	20
8057	PREPTIC® Swabs (Isopropyl Alcohol 70%)	10		10	10	10	20
8058	AMOPLY® Ammonia Inhalants .33 ml	3	3	10	10	10	10
8068	JOHNSON & JOHNSON Triangular Bandage; 51 in.	1	1	1	1	1	2
2012	ADAPTIC® Non-Adhering Dressing, 3 in. x 3 in.			2	2	2	4
8054	EYE-AID® Ophthalmic Irrigating Solution, 1/2 fl. oz.			1	1	3	4
8064	JOHNSON & JOHNSON Tourniquet; 36 in. x 3/4 in.				1	1	1
4505	JOHNSON & JOHNSON First Aid Cream, 0.8 oz.				1	1	1
4331	BAND-AID® Brand Butterfly Closures, Medium					1	1
7018	JOHNSON & JOHNSON Elastic Bandage, 2 in. x 3 yds.					1	1
8052	JOHNSON & JOHNSON Rescue Blanket; 56 in. x 86 in.						1
2145	SURGIPAD® Combine Dressing, 5 in. x 9 in.					2	6

Products bearing the RED CROSS Trademark have no connection whatever with the American National Red Cross.

*Trademark of Johnson & Johnson



Industrial First Aid Kit #50

First aid supplies for up to 50 people in a weatherproof, dust proof, rust resistant steel kit, with rounded corners and adjustable shelves. It features a separate unfilled compartment to meet individual first aid requirements. Carrying handle and wall brackets make it ideal for indoor and outdoor use. Contains comprehensive first aid booklet and wall chart.

CODE NO.	WEIGHT	SIZE	PER CASE
8150	15 lbs.	15-3/4 in. x 14-1/2 in. x 5-9/16 in.	1

Industrial First Aid Kit #25

First aid supplies for up to 25 people in a weatherproof, dust proof, rust resistant steel kit, with rounded corners and adjustable shelves. It features a separate unfilled compartment to meet individual first aid requirements. Carrying handle and wall brackets make it ideal for indoor and outdoor use. Contains comprehensive first aid booklet and wall chart.

CODE NO.	WEIGHT	SIZE	PER CASE
8125	12 lbs.	15 in. x 10-3/4 in. x 4-7/8 in.	1

STANDARD Industrial First Aid Kit

First aid supplies for 15-20 people in a weatherproof, dust proof, rust resistant steel kit, with rounded corners. Carrying handle and wall brackets make it ideal for indoor and outdoor use. Contains comprehensive first aid booklet and wall chart.

CODE NO.	WEIGHT	SIZE	PER CASE
8115	5-1/2 lbs.	12-15/16 in. x 9-1/4 in. x 2-1/2 in.	3

Industrial First Aid Kit #10

First aid supplies for up to 10 people in a weatherproof, dust proof, rust resistant steel kit, with rounded corners. Carrying handle and wall brackets make it ideal for indoor and outdoor use. Contains comprehensive first aid booklet and wall chart.

CODE NO.	WEIGHT	SIZE	PER CASE
8110	3-5/8 lbs.	6-15/16 in. x 9-1/2 in. x 2-11/16 in.	6

EMERGENCY First Aid Kit

First aid supplies for 5-10 people in a rust resistant steel kit. Ideal for indoor use, the Kit has a carrying handle for portability and brackets so that it can be wall-mounted. Contains comprehensive first aid booklet and wall chart.

CODE NO.	WEIGHT	SIZE	PER CASE
8116	2-3/4 lbs.	10-1/2 in. x 7-5/8 in. x 2-1/8 in.	12

J-KIT First Aid Kit

First aid supplies for up to 8 people in a weatherproof, dust proof, rust resistant steel kit with rounded corners. Carrying handle and wall brackets make it ideal for indoor and outdoor use. Contains comprehensive first aid booklet and wall chart.

CODE NO.	WEIGHT	SIZE	PER CASE
8104	2-3/4 lbs.	8 in. x 5 in. x 2-5/8 in.	12

Products bearing the RED CROSS Trademark have no connection whatever with the American National Red Cross



Industrial First Aid Kit Contents

UNIT CODE	CONTENTS DESCRIPTION	QUANTITY PER FIRST AID KIT					
		J-KIT #8104	EMER- GENCY KIT #8116	NUMBER 10 #8110	STAN- DARD #8115	NUMBER 25 #8125	NUMBER 50 #8150
5604	BAND-AID® Brand Adhesive Bandages, 3/4 in.	20	50	50	50	80	100
8520	STERI-PAD® Sterile Pads, Small, 2 in. x 2 in.		10			10	10
8522	STERI-PAD® Sterile Pads, Medium, 3 in. x 3 in.	3	2	10	10	10	10
8524	STERI-PAD® Sterile Pads, Large, 4 in. x 4 in.				10	10	20
8806	JOHNSON & JOHNSON Flexible Gauze Bandage 1 in. x 126 in. (3.5 yds.)		2			2	3
8807	JOHNSON & JOHNSON Flexible Gauze Bandage 2 in. x 126 in. (3.5 yds.)	1	2	1	2	2	2
8809	JOHNSON & JOHNSON Flexible Gauze Bandage 4 in. x 126 in. (3.5 yds.)	1		1	1	1	1
4831	DERMICEL® First Aid Tape, 1/2 in. x 180 in. (5 yds.)	1	1	1	1	2	4
8056	JOHNSON & JOHNSON First Aid Cleansing Wipes		8		10	10	20
8057	PREPTIC® Swabs (Isopropyl Alcohol 70%)	10		10	10	10	20
8058	AMOPLY® Ammonia Inhalants .33 ml	3	3	10	10	10	10
8068	JOHNSON & JOHNSON Triangular Bandage, 51 in.	1	1	1	1	1	2
2012	ADAPTIC® Non-Adhering Dressing, 3 in. x 3 in.			2	2	2	4
8054	EYE-AID® Ophthalmic Irrigating Solution, 1/2 fl. oz.			1	1	3	4
8064	JOHNSON & JOHNSON Tourniquet, 36 in. x 3/4 in.				1	1	1
4505	JOHNSON & JOHNSON First Aid Cream, 0.8 oz.				1	1	1
4331	BAND-AID® Brand Butterfly Closures Medium					1	1
7018	JOHNSON & JOHNSON Elastic Bandage, 2 in. x 3 yds.					1	1
8052	JOHNSON & JOHNSON Rescue Blanket, 56 in. x 86 in.						1
2145	SURGIPAD® Combine Dressing, 5 in. x 9 in.					2	6

Products bearing the RED CROSS Trademark have no connection whatever with the American National Red Cross.
 *Trademark of Johnson & Johnson

Telescoping Stretchers

These versatile units are constructed of sturdy, lightweight aluminum. Strong nylon fabric bottoms are vinyl-coated to resist wear, stains, and fluids. Cleans with a damp cloth.

Units feature a fold-over, multi-position, positive lock backrest that lies flat, forming a 72½" stretcher, or locks into full upright position for patient handling in stairs and narrow corridors. They fold to a compact, easily stored 50" x 20½". To use from folded position, simply unfold backrest, and stretcher telescopes into action in seconds. Complete with two quick-release nylon patient restraints.

Ferno-Washington Model 104 Order No. 010-1040-00

Length, open 72½" (1842 mm)
folded 50" (1270 mm)
Width 20½" (520 mm)
Height, open 8" (203 mm)
folded 5" (127 mm)
Weight 23 lbs. (10 kg)

Ferno-Washington Model 104-S (4" wheels) Order No. 010-1042-00

Length, open 72½" (1842 mm)
folded 50" (1270 mm)
Width 20½" (520 mm)
Height, open 8" (203 mm)
folded 5" (127 mm)
Weight 25 lbs. (11 kg)

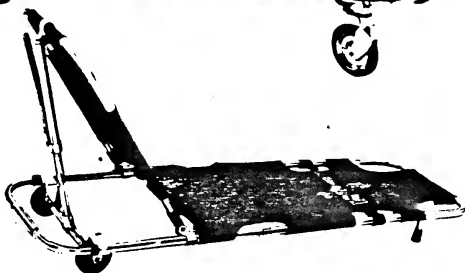
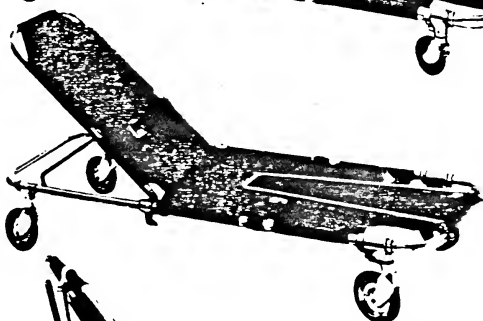
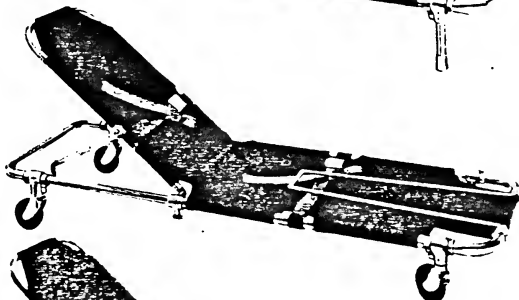
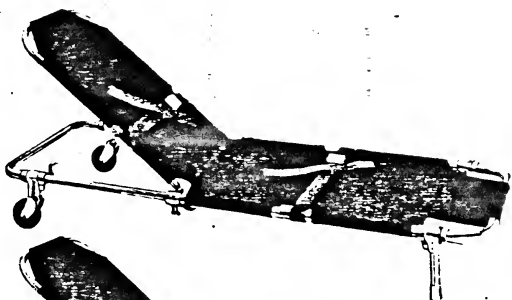
Ferno-Washington Model 104-S (6" wheels) Order No. 010-1042-60

Length, open 72½" (1842 mm)
folded 50" (1270 mm)
Width 20½" (520 mm)
Height, open 10" (254 mm)
folded 5" (127 mm)
Weight 33 lbs. (14 kg)

Ferno-Washington Model 9 Adjustable Backrest Stretcher Order No. 010-9000-00

A versatile low-profile stretcher engineered for use in station wagons. It is ideal for bringing patients down stairways or through narrow areas. Carrying handle can telescope and shorten when backrest is raised. Folds in half for compact storage.

Length, open 73½" (1866 mm)
folded 37½" (952 mm)
Width 19½" (495 mm)
Height 6" (152 mm)
Weight 17 lbs. (8 kg)

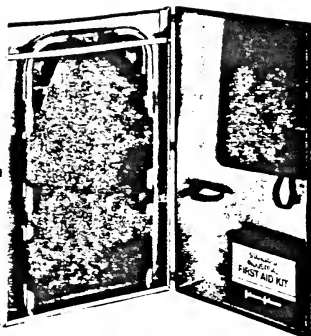


Safety Product

First Aid Stations. Designed for use in manufacturing plants, warehouses, office buildings, retail outlets, etc. Sturdy anodized aluminum cabinets may be mounted on the wall, saving valuable floor space. Cabinets protect contents, keeping first aid equipment and supplies neat and readily available.

Order No. 050-6201-00

Includes Model 590-1 aluminum cabinet, popular Model 11 Emergency Stretcher, Johnson & Johnson standard industrial first-aid kit, and 62" x 80" utility blanket. Large wall-mount cabinet (24 1/2" x 41 1/2" x 10" deep) has plenty of extra space for optional equipment and specialty items.



Order No. 081-8115-00

Model 8115 Johnson & Johnson standard industrial first-aid kit is included with Models 620-1 and 650-1 First-Aid Stations.



Order No. 050-6501-00

Same as Model 620-1, except that it features Model 108-AF Folding Pole Stretcher instead of the Model 11 Stretcher. Cabinet is roomy enough to accommodate optional items.



Order No. 081-6670-00

Now...instant emergency oxygen in the palm of your hand. Model 670 PORT-T-PAK by Safety Laboratories is convenient, lightweight, and fully portable. High tensile Columbian steel sphere contains 146 liters of U.S.P. oxygen. OSYLATOR regulator and mask assembly

delivers a minimum of 6 liters per minute constant flow for 24 minutes. High-quality contents gauge. Includes high-impact carrying storage case. Kit weighs less than seven pounds.

Order No. 081-6630-00

Order No. 081-6620-00

(Model 662 Kit, excludes hand and wrist, foot and ankle splints)

Includes #655 full arm, #656 full leg, #657 half arm, #658 half leg, #659 hand & wrist, and #660 foot & ankle, plus #661 carrying case. Splints are constructed of two-wall vinyl with exclusive design nylon zippers and screw-type air valve. Carrying case is made of easy-care vinyl-coated nylon fabric. Complete kit rolls up into compact storage package only 6" in diameter x 18" long...keeps splints clean, prevents permanent splint creases. Model 662 Kit is same as Model 663 kit but excludes the hand and wrist and foot & ankle splints. The individual splints and carrying case are also available as separate items.

Individual splints and carrying case are also available as separate items.

Order No. 081-6550-00 (full arm)

Order No. 081-6560-00 (full leg)

Order No. 081-6570-00 (half arm)

Order No. 081-6580-00 (half leg)

Order No. 081-6590-00 (hand & wrist)

Order No. 081-6600-00 (foot & ankle)

Order No. 081-6610-00 (carrying case)



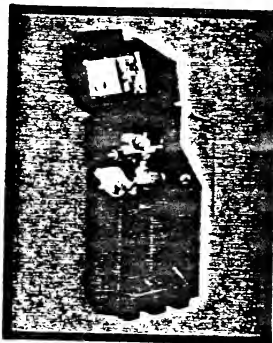
Portable Units

FA-9



Reasonably priced unit in new, lightweight carrying case designed to hold a standard D size cylinder. Regulating device is No. 2080 Regulator with cylinder contents gauge and knob indicating accurate liter flow readings. Unit comes complete with carrying case, No. 2080 Regulator, No. 1003 Plastic Mask, No. 5080 Cylinder Wrench, and No. 1175 Lifesaver Tube.

No. 5010 Lifesaver[®] Unit



The new sturdy, lightweight case includes the Smooth-Flo[®] oxygen regulator which has both contents and liter flow gauges. The case is formed to exactly fit a standard D size cylinder which can be refilled or exchanged anywhere. Lifesaver[®] unit comes with carrying case, No. 2070 Smooth-Flo[®] Regulator, No. 1003 Mask, No. 5080 Cylinder Wrench, and No. 1175 Lifesaver Tube.

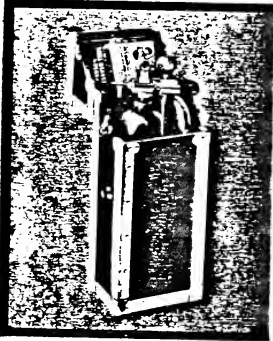
No. 5000 Lifesaver[®] Unit



Introducing the No. 5025 Lifesaver[®] Unit. This is an economically priced unit in sturdy, lightweight carrying case designed to hold a standard D size cylinder (360 liters, 45 min. to 1 hour supply). Unit complete with carrying case, No. 2090 Regulator (8 LPM Maximum), No. 1003 Plastic Mask, No. 5080 Cylinder Wrench, and No. 1175 Lifesaver Tube.

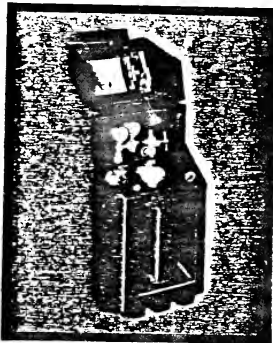
This new Lifesaver[®] Unit appears to meet the criteria set by the Department of Health, Education & Welfare-Social Security Admin.

No. 5025 Lifesaver[®] Unit



Extra heavy duty Lifesaver[®] Unit designed to withstand the rugged, unusual demands of police, fire and emergency squads. Case reinforced at all corners and sides with aluminum strips. Designed for standard D size cylinder (360 liters). Special adjusting screw assures that the cylinder will remain securely in place at all times. Unit includes heavy duty carrying case, No. 2080 Regulator, No. 1003 Plastic Mask, No. 5080 Cylinder Wrench, and No. 1175 Lifesaver Tube.

No. 5016 Lifesaver[®] Unit



Deluxe, portable oxygen unit for physician's office or automobile. Sturdy carrying case weighing only 15 lbs. after cylinder is installed. Designed for standard D size cylinder (360 liters) considered by most physicians the minimum supply for adequate protection. Unit includes carrying case, No. 2050 Regulator with cylinder contents and liter flow gauges, No. 6005 Mask, No. 1117 Tubing, No. 5080 Cylinder Wrench and No. 1175 Lifesaver Tube.

No. 5005 Portable Unit



For those requiring an additional 30 minutes of oxygen this unit is designed to accept a standard E size oxygen cylinder — 625 liters. Deluxe portable oxygen unit complete with sturdy carrying case weighing only 28½ pounds after cylinder is installed. Unit includes No. 2050 Regulator with liter flow and contents gauges, No. 6005 Mask, No. 1117 Tubing, No. 5080 Cylinder Wrench and No. 1175 Lifesaver Tube.

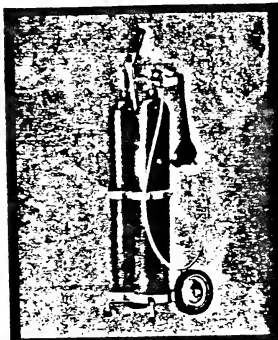
No. 5006 Portable Unit

New — Adaptable Carrying Case can be used interchangeably with Hudson portable units No. 5000, 5005, 5010, 5019, 5020, 5022, 5023, 5025, and 5031 or most portable units designed to accommodate "D" size cylinders. Lightweight (5 lbs. empty or 15 lbs. with cylinder installed). For carrying case alone, specify Model No. 5075.



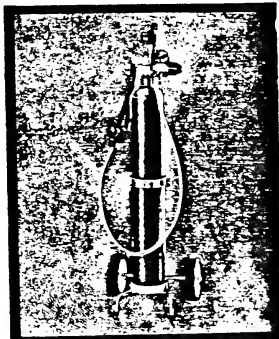
Flow of gas controlled by Hudson Yoke Regulator with both liter flow and cylinder contents gauges. Mobile cylinder cart, though primarily for E size cylinders, will also accommodate D size. Unit consists of No. 2050 Regulator, No. 4000 Small Cylinder Cart, No. 6005 Mask, No. 1117 Tubing, No. 5081 Hand Wheel, and No. 1175 Lifesaver® Tube.

No. 5003 Portable Unit



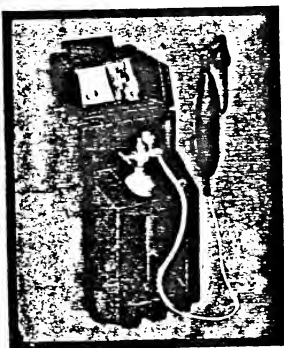
New Double D or E cylinder Portable Unit. Doubles oxygen capacity or provides back-up cylinder. Unit consists of deluxe No. 2070 Smooth-Flo® Regulator with both liter flow and contents gauge, No. 6005 Mask, No. 4001 Small Double Cart, No. 1117 Tubing, No. 5080 Cylinder Wrench, and No. 1175 Lifesaver® Tube.

No. 5026 Double Lifesaver* Unit



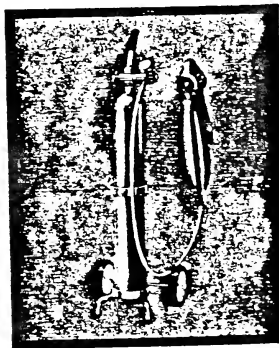
Flow of gas controlled by Hudson Yoke Regulator with cylinder contents gauge and knob indicating accurate liter flow readings. Designed for either D or E size cylinder. Unit consists of No. 2080 Regulator, No. 4000 Small Cylinder Cart, No. 6005 Mask, No. 1117 Tubing, No. 5080 Cylinder Wrench, and No. 1175 Lifesaver® Tube.

No. 5013 Portable Unit



Inexpensive portable resuscitation unit for physician's office or automobile. Consists of sturdy carrying case, 22 inches high, and weighing only 19 pounds after D oxygen cylinder is installed. Case designed to carry standard D cylinder, No. 2210 Yoke Needle Valve, No. 5050 Resuscitation Mask, No. 1003 Plastic Mask, No. 5080 Cylinder Wrench, and No. 1175 Lifesaver® Tube.

No. 5031 Resuscitation Unit



Easy to roll portable unit for physician or hospital use. Cart primarily for E size cylinders but will accommodate D size. Consists of No. 2210 Yoke Needle Valve, No. 4000 Small Cylinder cart for D or E size cylinders, No. 5050 Resuscitation Mask, No. 1003 Plastic Mask, No. 5080 Cylinder Wrench and No. 1175 Lifesaver® Tube.

No. 5033 Resuscitation Unit



Basic apparatus of all Hudson Resuscitation Units. Consists of 5 liter breathing bag. Inhaler body with pressure limiting aperture, face mask with straps and 4 feet of heavy plastic tubing.

This mask can be used only in conjunction with a needle valve or regulator with flush valve.

Operational Technique — Fill bag with oxygen or carbon dioxide-oxygen mixture. Place mask on face. Allow a small continuous flow of gas. Perform artificial respiration by intermittent hand pressure on the bag.

No. 5050 Resuscitation Mask

Replacement Parts for No. 5050

No. 6002 Mask No. 6014 Breathing Bag 5 liter
No. 6021 Strap for Mask

Portable Unit Accessories (Not Listed Elsewhere)

No. 1003 Plastic Mask
No. 6005 Adult Face Mask with Straps

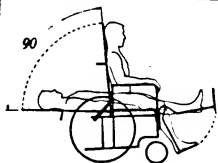
No. 1117 Plastic Tubing, (1/4" I.D.) — 4 ft. length
Tubing available in any length. Write for prices

Units Do Not Include Oxygen Cylinders.

RECLINING BACKS



Semi-reclining #41 back locks in various angles from vertical to a 30 degree recline. This adjustment offers a variety of body and leg positions for hip and knee limitations.



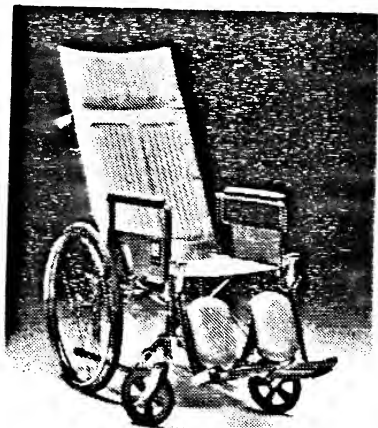
Full-reclining #47 back reclines 90 degrees from vertical to horizontal in one-inch increments.



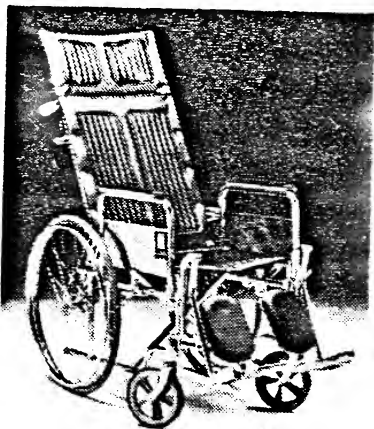
SOLID-FOLDING SEAT ASSEMBLY - #SFXA
(Replaces sling seat upholstery). Padded w/ 1/2" foam and leatherette covered.



SYNERGISTIC TRI-PAD CUSHION - #SSP-67
Special Synergistic seating platform distributes weight away from main pressure points. Pad cover is made of fire retardant, breathable NOMEX.



P8AU200-47-774



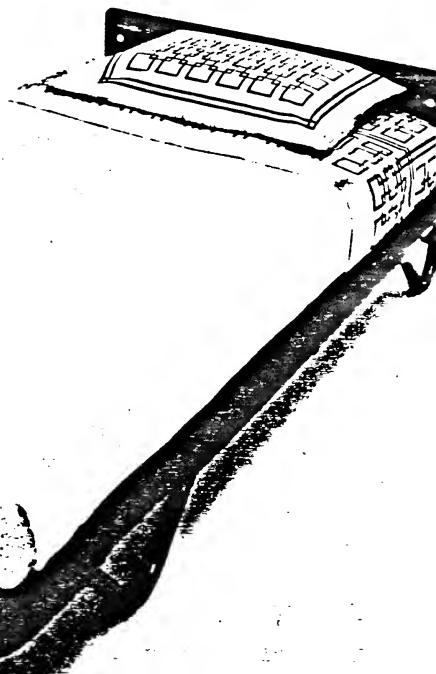
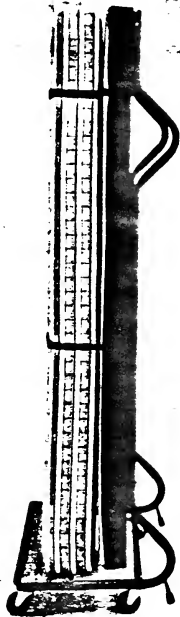
P8AU250-47-774



When the SICO® Mobile Sleeper goes down, your profits go up

A perfect way to solve room mix or added capacity needs. Simply move the SICO Mobile Sleeper where the guests are.

You can charge standard room rates because the SICO bed offers conventional bed comfort. And there's no maintenance, because there are no moving parts (except for the wheels, of course). Think of the SICO Mobile Sleeper as the profitable alternative to the old-fashioned rollaway. Your versatile addition to aggressive room marketing.



The SICO® Mobile Sleeper

Designed so foot rest becomes handle in transit. No moving parts in one-piece unitized frame.

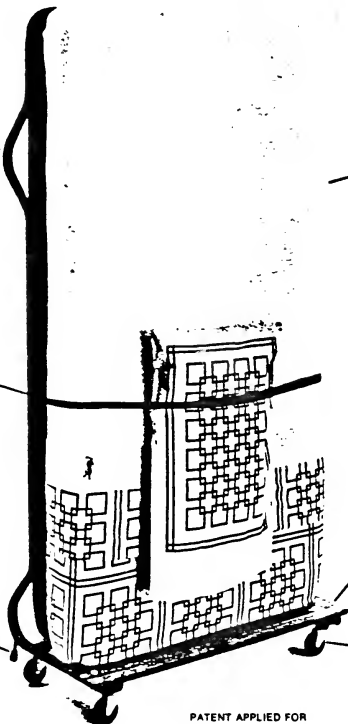
Conventional twin (39" x 74") mattress and vinyl-wrapped foundation.

Without removing holding strap, bed can be made up and stored. Velcro strap holds pillow in place. When down, hooks safely out of sight underneath.

Durable melamine plastic walnut grained headboard with tear drop edge guard.

Lightweight construction, rocker bar, and stop-action pivot point make SICO bed easy for maid to deliver and set up.

Casters roll SICO bed through any conventional door.



PATENT APPLIED FOR

SPECIFICATIONS

SICO Mobile Sleeper is furnished with four 3" swivel casters. Unit shall rest on casters when up. When lowered for use, unit shall rest on frame support for maximum stability. No moving parts required. Unit is furnished with 1/2" plastic finished headboard with vinyl bumper molding all edges. Structural frame is of welded tubular steel one-

piece construction with a baked on enamel finish. Unit will have an upper strap of 1" black cotton webbing that holds mattress in place while allowing the bedding to be tucked. A lower VELCRO strap will hold pillow in place for storage. Unit is furnished with 39" x 74" x 7" innerspring mattress and 4" foundation with black vinyl edges.

The patent numbers are as follows:

Great Britain "Rd" 867,311, Canada "Rd" Patented 1979, Australia "Rd" 78,037, West Germany MR 14 378.

Trademark SICO® registered Afro-Malagasy Union, Algeria, Argentina, Australia, Benin, Bolivia, Canada, East Germany, Iraq, Israel, Japan 664,702, Kuwait, Netherlands, New Zealand, Paraguay, Poland, Rumania, Sweden, South Africa, Syria, Turkey, Uganda, Uruguay, U.S.S.R., Yugoslavia, Mercos Registrado, Marchio Registrato, Marques Deposee, Schutzmarke, Vedegye, Iran, Indonesia, Singapore, Philippines, Taiwan, Spain, India.

Innovation by design

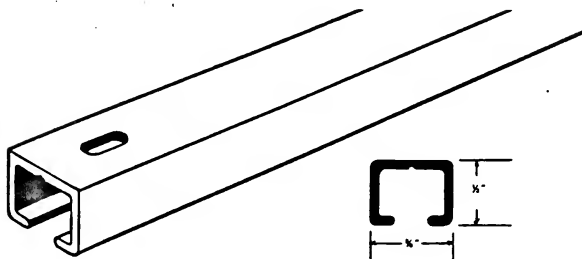


SICO INCORPORATED • 7525 Cahill Road • Minneapolis, Minnesota 55435 • U.S.A.
Phone (612) 941-1700 • Cable WILSICO, Mpls.
INTERNATIONAL TWX WILSICO EDNA 910-576-177
Printed in U.S.A.

ORDERING NUMBER: 1374-3974. LIST PRICE \$283.00

DIMENSIONS Length 78", Width 39", Height 21"

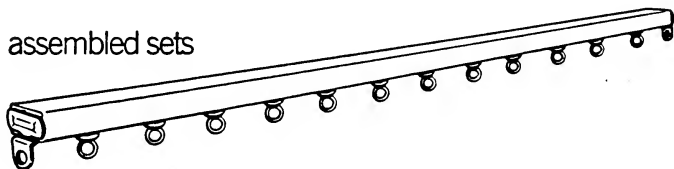
FREIGHT CLASSIFICATION Daybeds, Not Uphol., S.U. - Class 150.



9-807 TRACK: For use with cubicle curtains or hand-drawn draperies. Comes in straight 16-ft. lengths. May be curved on job to required angle to a 12-inch radius using 9-877-0 Bender and 9-875-1 Fillers. Slotted holes punched in track on 16-inch centers. Emralon® coated track for smooth operation. FULL PACKAGE: 192 feet. FINISH: Aluminum (0).

- Neat trim profile
- Mounts flush to ceiling
- Curves to 12" radius

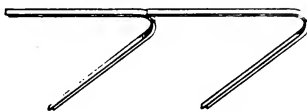
assembled sets

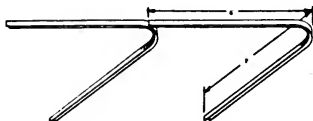


9-984-0 STRAIGHT ASSEMBLED SETS: Using components designed for 9-807-0 track section and 9-342-1 slides. FINISH: Aluminum (0).

9-979-0 STRAIGHT ASSEMBLED SETS: Using components designed for 9-807-0 track section and 9-842-1 cubicle slides. FINISH: Aluminum (0).

9-897-0 PREFORMED CUBICLE TRACK: A continuous piece of track formed to a right angle with a 12" radius curve. Each leg is 8 feet long. Illustrated is a view to ceiling of 9-897-0 preformed sections arranged for a standard two-bed cubicle system. Preformed 9-897-0 Cubicle Track is installed flush to ceiling. Screws or fasteners are inserted through slotted holes punched in track on 16-inch centers. Complete with necessary slides and end caps. Typical parts listed for a two-bed unit are listed on page 4. FINISH: Aluminum (0).





Forms on the job with portable tool or available in preformed unspliced units from the factory.

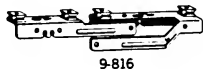
TYPICAL BILL OF MATERIALS—9-897-0 (Two beds)

Quantity	Item Number	Description
2	9-897-0	Preformed Cubicle Tracks
96	9-342-1 or 9-842-1	Slides or Cubicle Slides with Hook
4	9-328-0 or 9-822-0	End Stops or End Stops with Gate

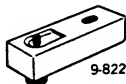
specifications:

Where indicated on the Drawings, furnish and install 9-807 "Contrack" hand traverse extruded aluminum cubicle track in anodized natural satin finish, as manufactured by Graber Company, Middleton, Wisconsin, including the following components: 9-842-1 Slide with Hook, or 9-342-1 Slide; 9-328-0 End Cap, or 9-822-0 End Stops for Slide removal or addition. Installation: Track shall be securely attached with No. 8 screws with No. 6 head or other fasteners through perforations at 16" intervals along track. Fasteners shall be installed with care so that track channel is not defaced to interfere with the sliding of cubicle slides.

accessories



9-816



9-822



9-328



9-842



9-342



9-848

9-816-0 MASTER SLIDE: For use on 9-807-0 Track to hand traverse draperies and overlap them at center. Often used with batons attached to masters. FINISH: Zinc Chromate (0).

9-822-0 END STOP WITH GATE: Used as an end stop for 9-807-0 track sections. Removable gate allows take-down of cubicle curtains with sewn-on 9-342-1 Slides, or removal and addition of slide. Subtract $\frac{3}{4}$ " from track length for each stop used. Reversible. FINISH: Zinc Chromate (0).

9-328-0 END CAP: Used as a closure and end stop for Track 9-807-0. FINISH: Zinc Chromate (0).

9-842-1 SLIDE WITH HOOK: Self-lubricating slide with hook for easy attachment of grommets curtains. FINISH: White (1).

9-342-1 SLIDE: Self-lubricating. Can be sewn directly to curtain. Slide only $\frac{3}{4}$ " wide for minimum stacking. FINISH: White (1).

9-848-0 SPLICE: Used to align 9-807-0 track sections when splicing. Required when length exceeds 16 ft. FINISH: Zinc Chromate (0).

Functional, long-wearing Graber cubicle curtains are available in a choice of sturdy fabrics and a wide range of colors. Flameproof and washable. Specify with or without nylon mesh top up to 21" in height.

cordette

100% washable cotton, 69" width. Permanently flame retardant, mercerized and sanforized, Roxel treated. Guaranteed color-fast. COLORS: Cream/sandalwood/pink/yellow white/blue/green.

saran verel*

A synthetic woven fabric of 59% Saran fibers, 29% Verel Modacrylic, 12% Rayon. 76" width. Inherent flameproofing that cannot be washed out. Shrinkage controlled to less than 3%, color-fast. Will not rot, crack, splinter. Static free and mildew proof. Washable in warm water, no ironing. COLORS: Champagne/ yellow/ linen/ toast/ turquoise/ green.

*Dow Chemical, Saran Monofilament/Eastman Chemical, Mond-Acrylic Fiber

jean cloth

100% washable cotton, 96x64 thread count. 36" width. Permanently flame retardant (accepted by New York and California fire laws), mercerized and preshrunk. Guaranteed color-fast, extremely economical. COLORS: Champagne/ maize/ peach/ tan white/ blue/ Nile green.

nylon mesh

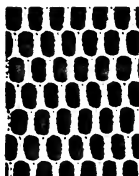
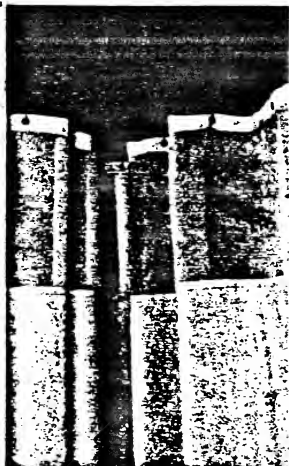
Both types available in widths up to 21". To be used in combination with any of the Graber cubicle curtain materials for ventilation on ceiling installation.

Orders must specify:

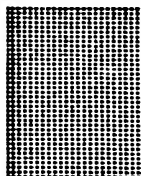
1. Type fabric
2. Color
3. Width/left to right
4. Height/top to bottom
5. Height of fabric plus height of nylon mesh (if desired)

Example:

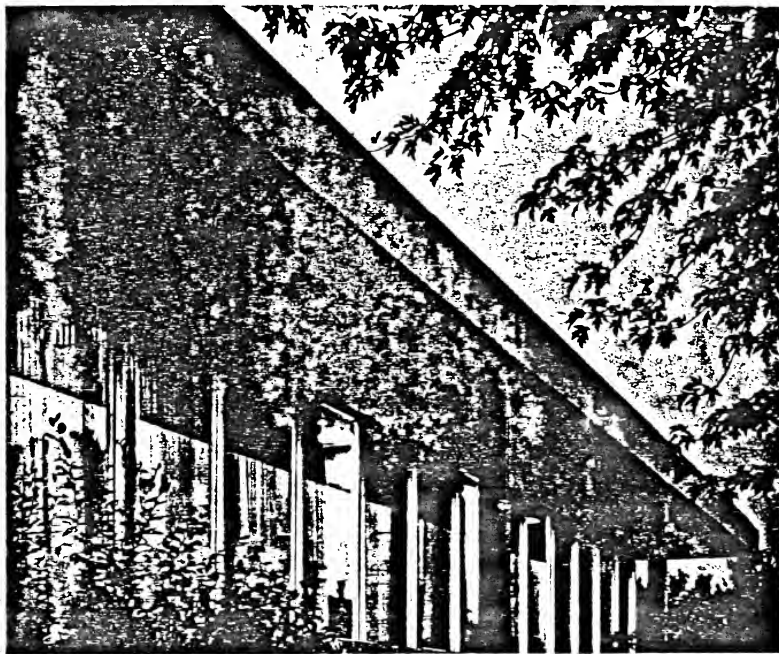
Curtain without mesh: 16'6" wide x 7' high
Curtain with mesh: 16'6" wide x 6' high plus 21" mesh
(Total width = 16'6")
(Total height = 93")



White Openweave



White Closeweave



distribution centers

CALIFORNIA
Los Angeles (Cerritos) 90701
14133 Arbor Place
(213) 926-1368

San Francisco 94103
544 Ninth Street
(415) 621-8170

COLORADO
Denver (Commerce City) 80022
6773 East 50th Ave.
(303) 287-0363

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Miami 33138
370 N.E. 62nd Street 33138
P.O. Box 1435
(305) 757-4586

Tampa 33607
5001-A West Nassau
(813) 879-1591

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2716 N.E. Expressway
(404) 636-4361

ILLINOIS
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17th and Union Streets
(312) 754-2600

Chicago (Rosemont) 60018
7151 Barry Avenue
(312) 298-6116

MICHIGAN
Detroit
(City of Ferndale) 48220
10600 Galaxie
(313) 399-9404

MINNESOTA
St. Paul 55113
1975 W. County Road, B2
(612) 636-3263

NEW YORK
New York
(Long Island City) 11101
29-09 37th Avenue
(212) 361-2638

OHIO
Cleveland
(Warrensville Heights) 44128
20810 Miles Parkway
(216) 475-8520

TEXAS
Dallas 75207
2278 Monitor
(214) 638-1380

WASHINGTON, D.C.
Capitol Heights, MD 20027
Hampton Industrial Park
8630 Edgeworth Drive
(301) 336 8188

CANADA
Ontario M9W4Y8
80 Galaxy Boulevard
Unit 8, Rexdale 605
(416) 677-1473

EXECUTIVE OFFICES:
Middleton, Wisconsin 53562
(608) 836-1011

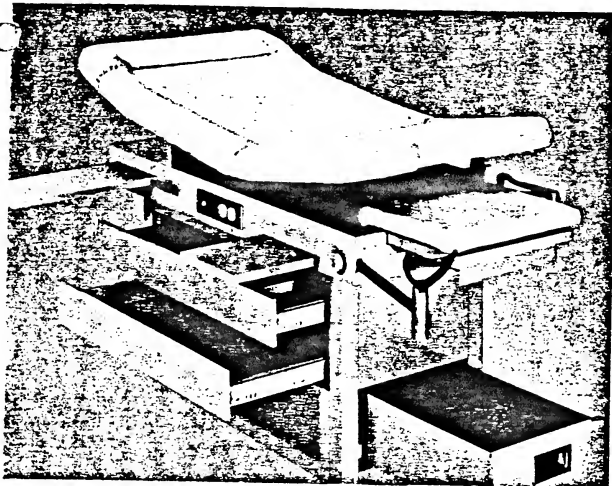
SHOWROOMS
Merchandise Mart Plaza
Suite 1332
Chicago, Illinois 60654
(312) 644-0520

261 5th Avenue
Suite 514
New York, New York 10016
(212) 889-8450

Graber
the window fashion people
 A CONSOLIDATED FOODS COMPANY
RESPONSIVE TO CONSUMER NEEDS

CONCEPT 2 — examining tables

FA-1



Includes many time-tested features desired by the medical profession and their institutions

Concept 2 examining tables include many extra features for the physician's office, clinic and hospital out-patient room.

- A vacuum formed Naugaform upholstered top — 27" wide — affords maximum ease of cleaning — counterbalanced for fingertip adjustment — releases from either side. Seat section adjusts for pelvic examination.
- New extra wide "sit-on" leg extension raises as it extends, holds optional stainless steel pan in position, pan cover upholstered for leg support.
- Self adjusting plastic covered stirrups swivel and conceal — adjust horizontally and laterally.
- Pedestal design of base permits easy access to table from four sides — particularly when seated on a stool. Table stability assured.
- Electrical system fully U/L approved. U/L No. 225U.
- Two large side drawers — lower drawer for patient drapes — upper drawer has adjustable divider and instrument warmer at foot end of table.
- Foot step is rubber covered steel — extends 16" on adjustable nylon glides — affords storage for paper rolls in drawer.

CONCEPT 2 — examining tables

#20 Examining Table, with instrument warmer, indicator switch, hospital grade double electrical outlets, plug and cord, all U/L approved, two utility shelves, dual back lock and seat releases, plastic coated self adjusting disappearing stirrups, vacuum formed Naugaform upholstered top with wide "sit-

on" leg rest, paper roll holder and cutter. Base unit of steel has two long side drawers, adjustable divider in upper drawer, combination rubber covered step and storage drawer — floor glides. Size: 27" wide x 32½" high x 52" long — 70" extended

..... Suite A-2

#21, Same as #20, except with only two electrical outlets. No warmer or utility shelves.

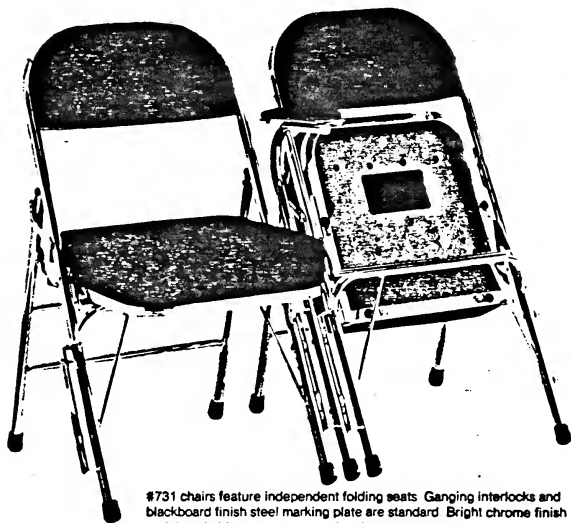
Suite B-2

#22, Same as #21, except no electrical outlets and only one back release lever.

..... Suite C-2

THE 731 DELUXE STEEL FOLDING CHAIR

EA.



#731 chairs feature independent folding seats. Ganging interlocks and blackboard finish steel marking plate are standard. Bright chrome finish and detachable armrests are optional at extra cost.

Steel folding chairs built to strict quality standards

In 1974 Krueger acquired the auditorium seating line of Bela Seating Co., Inc. Bela's outstanding patented mechanical features established it as the leader in its field.

Krueger, founded in 1947, is the largest manufacturer of portable steel folding chairs and tables in the USA. Krueger's manufacturing skills and in-house capabilities plus Bela mechanical features result in the finest line of deluxe portable steel seating available.

Quality is controlled throughout manufacturing... from purchase of raw material to in-house manufacture of steel tubing. Fabricating, assembling, electrostatic spray painting, chrome plating, and upholstery operations are also self-contained.

Bright duplex nickel chrome plating represents an additional value at small additional investment. Krueger's process is identical to that of the automotive industry. An outdoor finish indoors for years of maintenance-free use.

Because of exacting manufacturing requirements, Krueger guarantees the #731 frame against defective workmanship and materials for 10 years.

What makes a chair outstanding?

Y-type tubular steel frame chairs have been manufactured by Krueger for over two decades. They have been subjected to adverse conditions in school, church, institutional, and auditorium installations across the nation.

Unique tube-within-a-tube reinforcement provides additional support in the front leg frame and



seat. Tests verify this construction to be the strongest available... a vital factor considering abuses

in mass seating.

Krueger construction coupled with bright chrome or enamel finishes make the #731 chair an outstanding value. Upkeep and repair are minimized assuring lowest cost per year for chairs of this type.

Some fine points of construction



Full width front U-brace seat support has no hazardous protrusions. U-brace, rod support plus rear crossbraces are hand-brazed

for strength. Double rear cross-braces add rigidity and are coined for enlarged weld contact with legs.

Independent seat folding action utilizes heavy gauge steel carriage and rivets. Brazed steel tube spans both carriage frames and also serves as a hand-hold for faster set-up. Rubber bumpers prevent metal-to-metal contact in open and closed positions for quiet folding action.



The square tubular steel seat frame features tube-within-a-tube construction at the sides. It strengthens the frame and adds support to pivots.

Safety features abound



Distinct "L" shape hinge eliminates pinching when chairs are being folded.

A full curl spans the bottom edge of the steel backrest and provides additional strength.

Wide stance Y-type leg design and center of gravity midway



between front and rear legs, eliminate front and rear tipping hazards. Steel caps are secured to legs under

heavy-duty mar-proof rubber feet to prevent floor damage. Tube-within-a-tube seat support prevents frame deflection.

Comfort with correct posture support

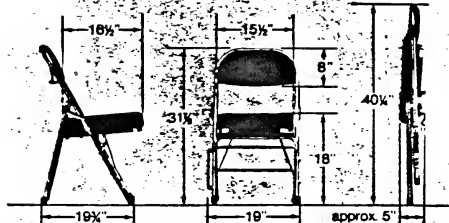
When the 2½" polyfoam is compressed as in seating, the seat height is approximately the ideal 17½".

The generous foam cushioned backrest is 8" deep, 16½" wide and is contoured and angled to complement seat pitch for best posture support.

Optional interlocking armrest



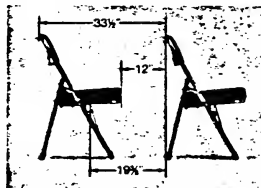
Tubular steel armrests are secured by interlocking brackets. Left or right models for aisle ends locked by Allen head screws. Cushioned and upholstered.



Chair spacing when interlocked: 19" without arms center to center; 21" with arms.

Set up more chairs in less time

Krueger interlocking is the simplest system available. Riveted male interlocks engage matching twin keyholes on brazed heavy-duty female bracket. Fast alignment, set-up and release. Strongest frame available assures interlocking unhampered by abuse.



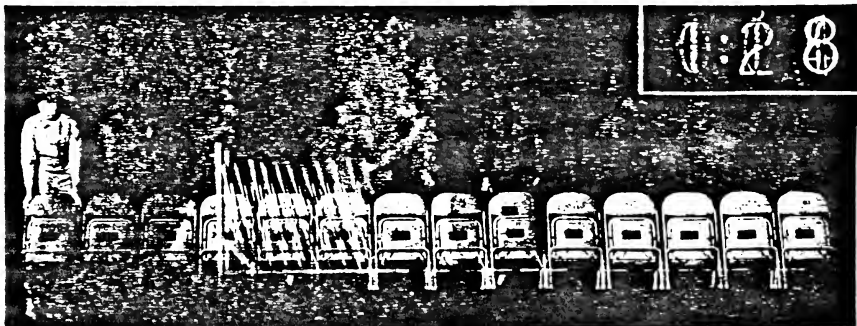
33" back to back is required. Krueger #731 chairs allow more than adequate aisle space, greater row density and more seating capacity in floor areas than competitive models. Note ample clearance for ease of entry and exit.

More seating capacity within NFPA Code* standards

In rows, a minimum of 12" between backrests and fronts of seats, and

*National Fire Protection Association Life Safety Code 1973.

Specifications are subject to revision without prior notice.



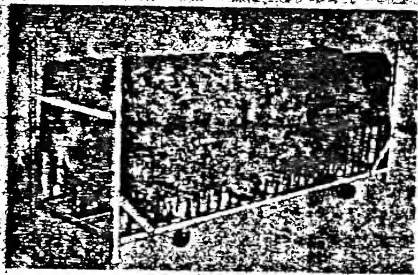
One inexperienced person can set up a row of 14 #731 chairs in less than 1½ minutes; remove them in 1 minute. Consider the cost savings.

krueger

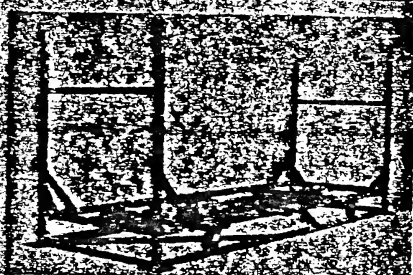
America's most complete line of durable portable seating

Specifications:

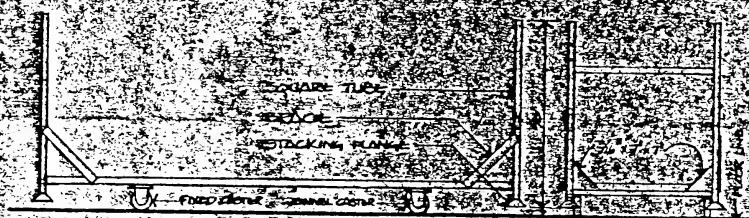
#202X Nesting Type Storage Trucks and Base Plates for Folding Chairs



#202X holds approximately 50 No. 731 chairs



#202X stack of high wheel loaded on steering block



SIDE VIEW

END VIEW



PLAN VIEW

TRUCK PALLETS

1. General Requirements

The truck pallets for storing and transporting folding chairs shall be of steel frame construction with four casters, two swivel and two fixed. Trucks shall be similar to Krueger No. 202X Special truck, with capacity to hold approximately 50 deluxe No. 231 model chairs. Bidder to determine and bid on number of trucks required to store quantity and type of chairs.

Note: Nesting type storage truck stack three high for 600 chairs.

2. Type

Trucks to be of double width design and constructed to allow for efficient storage of chairs two abreast, or couples of two ganged chairs. Truck designed to allow for efficient loading or unloading upon another, using fork lift trucks.

3. Construction

All channels, tubes, and angles shall be welded in accordance with current requirements of AISC specifications.

Center Channel: 5" x 13/4" structural channel with 5/8" flat steel floor.

Outside Channel: 3" x 1-1/2" structural channel with 3/8" flat steel floor.

End Angles: 2" x 3" x 3/16" structural angles.

Square Tubes: 1-1/2" high carbon steel, 16 gauge minimum.

Braces Minimum: 1.05 O.D. dia. high carbon tubing or high carbon flat steel 2" x 1/4" x 1/8"

Caster Mounts: Fixed: 1-1/2" x 1-1/2" x 3/16" steel angles welded to channel.

Swivel: 2" x 1-1/2" x 3/16" steel angles welded to channel.

Stacking Flanges: 10-gauge plate steel.

Casters: Extra heavy duty, 6" dia., 2 fixed, 2 swivel.

4. Overall Dimensions

120" long x 40" wide x 52" high. Special sizes available.

5. Finish

All parts to be finished and painted with heavy duty base enamel.

BASE PLATES (STARTER BLOCKS)

To be constructed of 1-1/2" x 1-1/2" x 1/8" angle, 16 gauge x 1/8" corner plates. Starter blocks to be used to hold casters off floor for stacking and to support chair truck plates stored position. Plates are to be set on floor and should provide firm support between the standing legs to the plates (feet) of the chair truck rack.

1. Number

One base plate required for every three (3) nesting type 202X chairs.

2. Finish

All parts to be finished and painted with heavy duty base enamel.

krueger

PO BOX 1000
BETHLEHEM, PA 18010
212/268-1000



Outdoor top with doors

Outdoor top without doors

Indoor top with doors

Large capacity trash disposal for any outside area. Perfect for parks, shopping malls, sidewalks, office plazas, etc.

For fast food restaurants, transportation terminals, malls, etc.

The largest capacity container for the money.

Glutton containers hold 56-gallons. That means they're perfect for areas that handle large crowds. They don't need to be emptied as often, they require no maintenance, and they're easy to clean. What's more, because of their rugged construction, Glutton containers hold up to weather and

handling extremes without rusting, denting, or losing shape. And, their decorative colors remain bright, even under the hottest sun. So you not only get huge capacity, but big value as well. Available with or without counter-balanced, self-closing doors.



Red (top only)



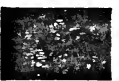
Orange (top only)



Green (top only)



Beige (top only)



Brown (top only)



Brown (base only)



O. White (base only)

GLUTTON TOPS, BASE

No.	Description	Color	Pk.
256X	Hooded Top with Doors 26 1/2" x 23 1/4" x 12 1/2" h. (43 1/2" high with base)	Brown, Red, Orange, Green, Beige	1
256V	Hooded Top without Doors 26 1/2" x 23 1/4" x 12 1/2" h. (43 1/2" high with base)	Brown, Red, Orange, Green, Beige	1
256S	Indoor Top with Doors 26 1/2" x 23 1/4" x 6 1/2" h. (36 1/2" high with base)	Brown, Red, Orange, Green, Beige	1
256B	56 Gal. Container (Base) 25 1/2" x 22 1/4" x 31 1/2" h.	Brown, Oyster White	4

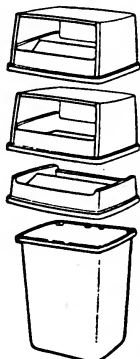
Woodgrain option available on 2 sides, 256B-86. Standard optional hot stamped design available: PITCH-IN, 2 sides, green on 256B-55.

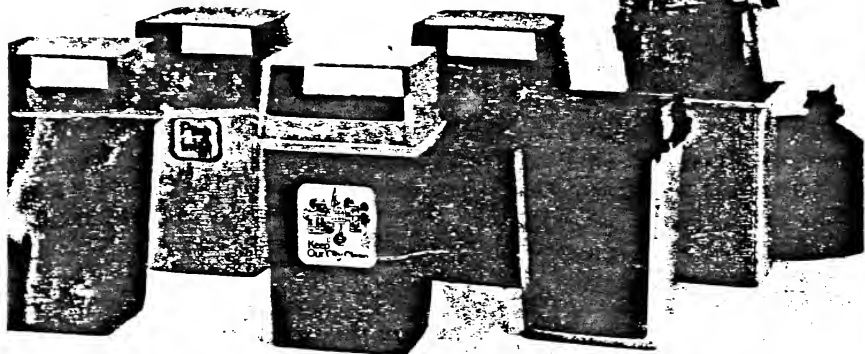
Standard optional silk screened designs include:
KEEP OUR CITY CLEAN
KEEP AMERICA BEAUTIFUL
PLEASE DON'T LITTER
BE A WASTE WATCHER

Custom Imprinting (silk screened or hot stamped). See your Rubbermaid representative for details.

ACCESSORIES FOR GLUTTON CONTAINERS

No.	Description	Color	Pk.
5013	Heavy Duty Polyliner® Bag	Grey	100
5014	Standard Polyliner® Bag	Grey	200
256K	Rigid Liner 23 1/2" x 20 1/2" x 29" h.	Grey	4
256W	Hold down base (fill with water, sand or gravel) 21 1/2" x 18" x 5"	Bronze	1
256E	Hold down KR for permanent installation (container is bolted to concrete or wood at four corners)		4
2646	Anchor plug kit (with snap-off feature)	Black	4
2633	Dolly (Steel Platform Zinc-plated converts container into mobile unit)	Steel	2
256J	Hinge KR (easy do-it-yourself kit for attaching top to container)		1





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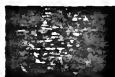
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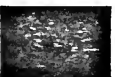
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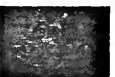
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Brown (base only)

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